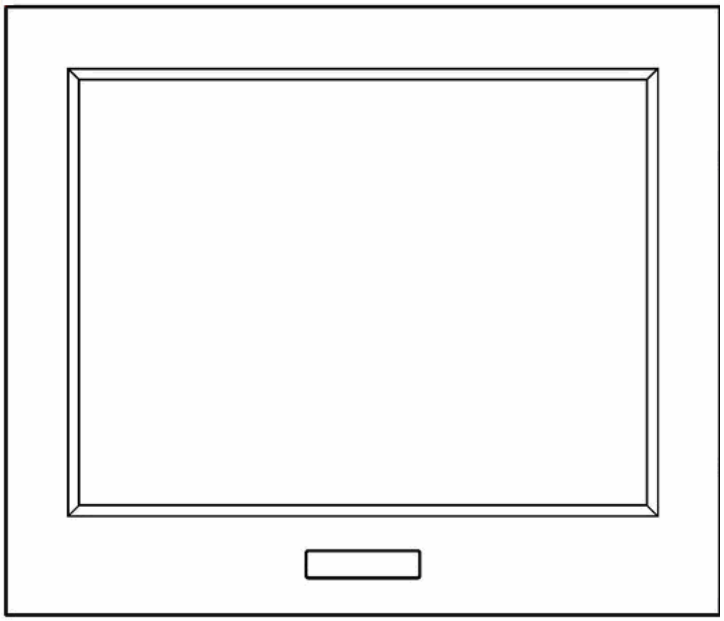
User Manual

April 2009 Revision 1.3

Kiosk System
Panel PC Series



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Manual Version 1.3

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Safety

IMPORTANT SAFETY INSTRUCTIONS

- Read these instructions carefully. Keep these instructions for future reference.
- Follow all warnings and instructions marked on the product.
- Do not use this product near water.
- Do not place this product on an unstable cart, stand, or table. The product may fall, causing serious damage to the product.
- Slots and openings in the cabinet and the back or bottom are provided for ventilation; to ensure reliable operation of the product and to protect it from overheating, these openings must not be blocked or covered. The openings should never be blocked by placing the product on a bed, sofa, rug, or other similar surface. This product should never be placed near or over a radiator or heat register, or in a built-in installation unless proper ventilation is provided.
- This product should be operated from the type of power indicated on the marking label. If you are not sure of the type of power available, consult your dealer or local power company.
- Do not allow anything to rest on the power cord. Do not locate this product where persons will walk on the cord.
- Never push objects of any kind into this product through cabinet slots as they may touch dangerous voltage points or short out parts that could result in a fire or electric shock. Never spill liquid of any kind on the product.
- The socket outlet should be installed near the equipment and should be easily accessible.

CE MARK

CE This device complies with the requirements of the EEC directive 2004/108/EC with regard to “Electromagnetic compatibility” and 2006/95/EC “Low Voltage Directive”

FCC

This device complies with part 15 of the FCC rules. Operation is subject to the following two conditions:

(1) This device may not cause harmful interference.

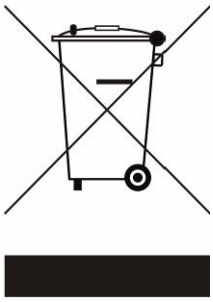
(2) This device must accept any interference received, including interference that may cause undesired operation

CAUTION ON LITHIUM BATTERIES

There is a danger of explosion if the battery is replaced incorrectly. Replace only with the same or equivalent type recommended by the manufacturer. Discard used batteries according to the manufacturer's instructions.

LEGISLATION AND WEEE SYMBOL

2002/96/EC Waste Electrical and Electronic Equipment Directive on the treatment, collection, recycling and disposal of electric and electronic devices and their components.



The crossed dustbin symbol on the device means that it should not be disposed of with other household wastes at the end of its working life. Instead, the device should be taken to the waste collection centers for activation of the treatment, collection, recycling and disposal procedure.
To prevent possible harm to the environment or human health from uncontrolled waste disposal, please separate this from other types of wastes and recycle it responsibly to promote the sustainable reuse of material resources.

Household users should contact either the retailer where they purchased this product, or their local government office, for details of where and how they can take this item for environmentally safe recycling.

Business users should contact their supplier and check the terms and conditions of the purchase contract.

This product should not be mixed with other commercial wastes for disposal

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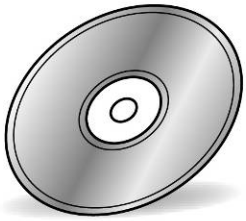
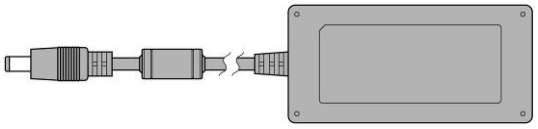
1. Accessories

a. Power Cord (1)

b. RJ45-DB9 Converter Cable (2)



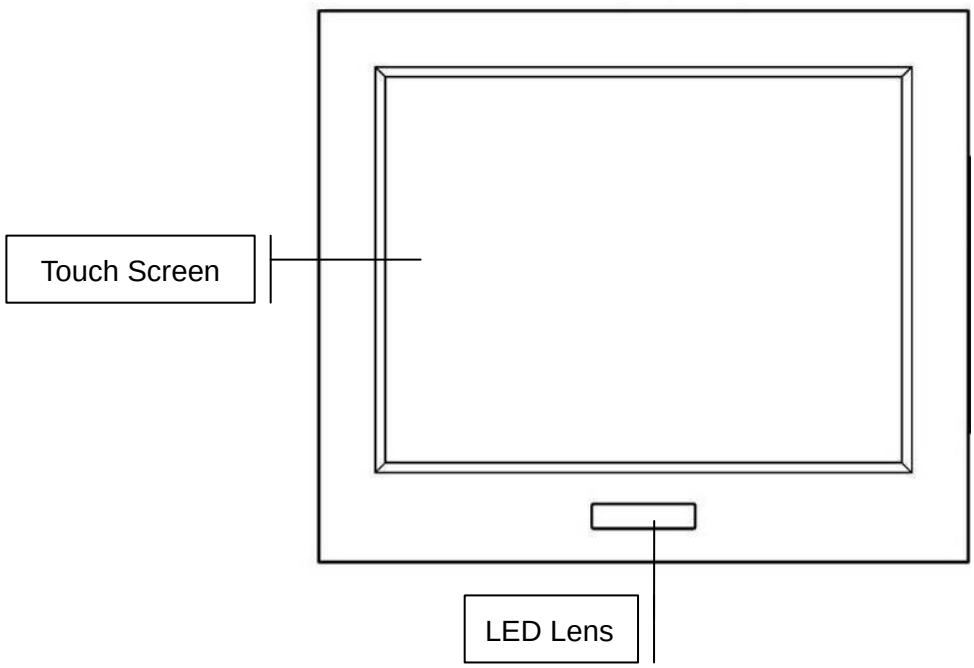
c. Driver CD (1)



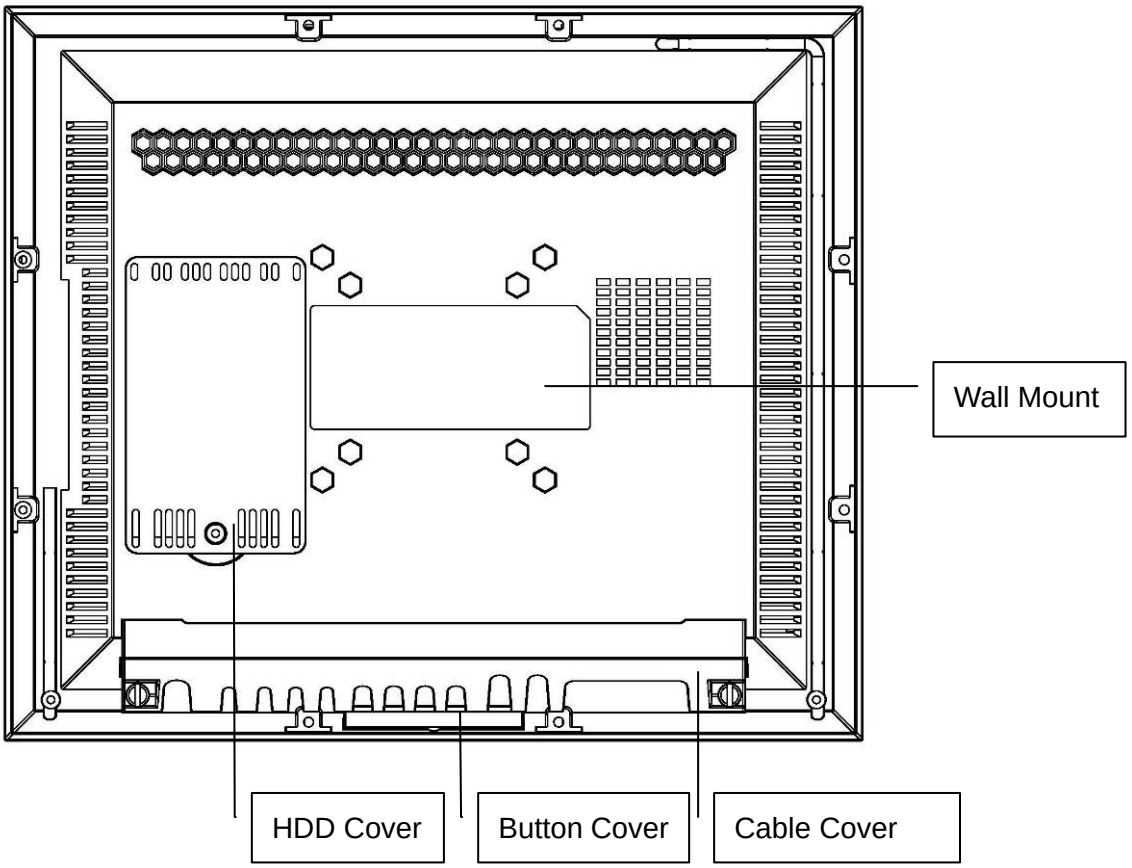
d. Power Brick (1)

2. Components

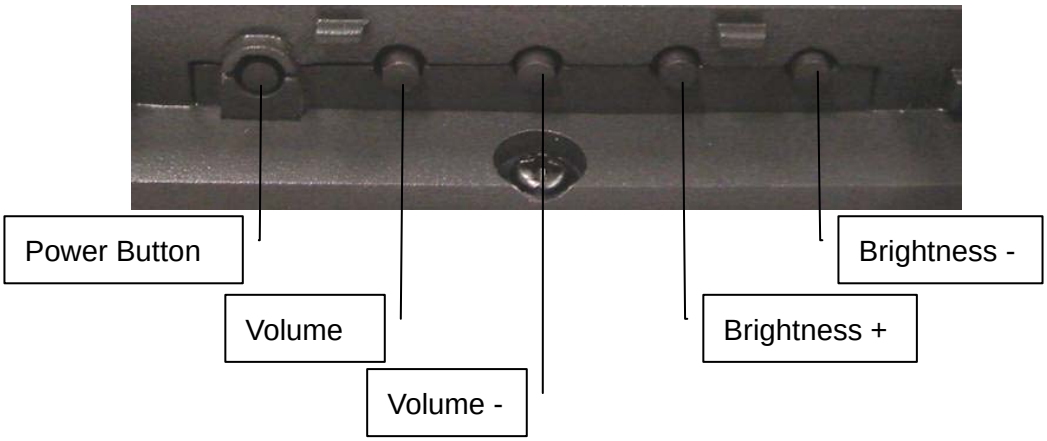
2.1 Front View



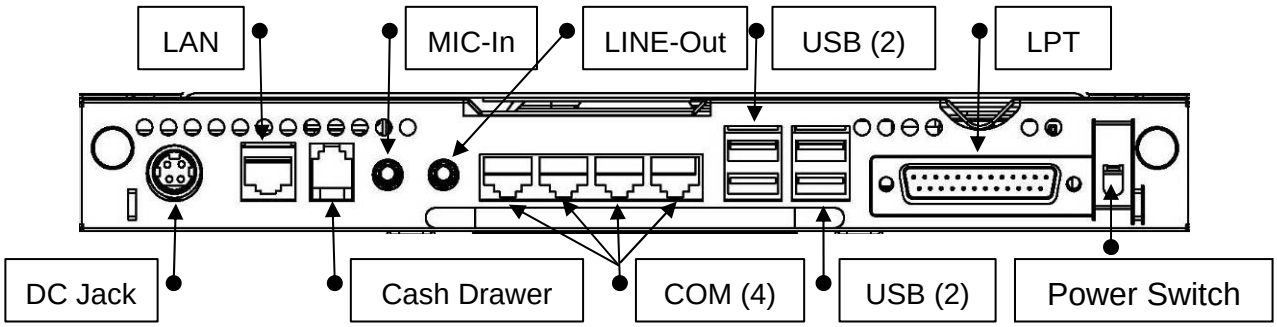
2.2 Rear View



2.3 Button Cover View



2.4 I/O Function



3. Specification

Model Name	K875	K877
Motherboard	B78 / B98	
CPU Supports	B78: Intel Celeron M 1.5GHz; Pentium M 1.6GHz/1.8GHz B98: Celeron M 1.86GHz;Core Due 2.0GHz;Core 2 Due 1.66GHz/2.16GHz	
Chipset	B78: Intel 852GM and ICH4 FSB 400Mhz B98: Intel 945GME+ ICH7M	
System Memory	B78: 2 x DDR SO-DIMM slot, up to 2 GB B98: 2 x DDRII SO-DIMM slot, up to 4 GB	
Graphic Memory	B78: Share system memory max 64MB B98: Share system memory max 244MB	
LCD / Touch Panel		
LCD Size	15" TFT LCD	17" TFT LCD
Brightness	350nits	300nits
Maximal Resolution	1024 x 768	1280 x 1024
Touch Screen Type	Resistive type / SAW touch	
Storage		
HDD	2.5" Slim HDD bay, SATA HDD	
Expansion		
mini-PCI Slot	1, support 802.11 a/b/g WLAN card	
PCI express	1 for B98 main board only	
External I / O Ports		
USB 2.0	4 x USB Type A	
Serial / COM	RJ-45 (COM1 standard RS-232; COM2 RS-232 / 422 / 485 selectable by jumper; COM3 & COM4 pin 9 with 5V or 12V power by jumper	
Parallel	1 x D-sub 25F	
LAN (10/100/1000)	1 x RJ-45	
Cash Drawer	1 x RJ-11 (12V or 24V)	
DC Jack	1 x Latch Type	
Audio Jack	1 x MIC-in, 1 x Line-out	

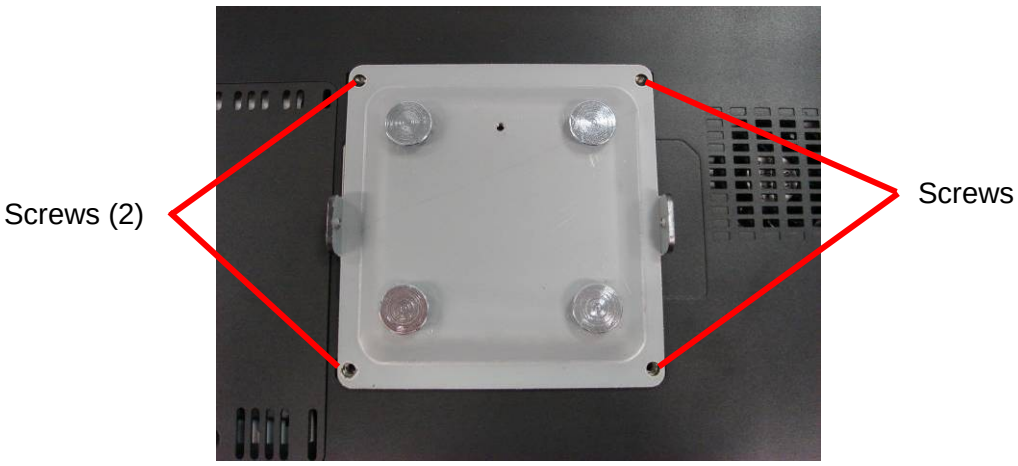
Internal Interface		
USB 2.0	1	
COM	2 (COM5: Touchscreen; COM6: Motion sensor)	
2nd VGA	10-pin (2 x 5) header for CRT	
Audio		
Speaker	2 x 2W Speaker	
Control / Indicator		
Power Button	1	
Indicator LED	1 x power LED	
IrDA	1	
Motion sensor	1	
Volume control button	Up & Down	
Brightness control button	Up & Down	
Power		
Power Adapter	DC 19V / 90W	
Peripheral		
MSR	Side mount ISO 3-tracks or JIS I&II moudle (Optional)	
Scanner	Laser scanner (Optional)	
Environment		
EMC & Safety	FCC Class A, CE, LVD	
Operating Temperature	0°C ~ 40°C (32°F ~ 104°F)	
Storage Temperature	-20° ~ 60°C (-4°F ~ 140°F)	
Operating Humidity	5% - 95% RH non-condensing	
Storage Humidity	5% - 95% RH non-condensing	
Dust & Water Proof	NEMA 4 / IP 65 (front)	
Dimension (W x D x H)	386 x 330 x 65 mm 15.2" x 13" x 2.6"	420 x 372 x 68 mm 16.5 " x 14.6 " x 2.7 "
Weight	N.W. 5.3kgs / 11.7 lbs	N.W. 7.3kgs / 16.1lbs
Mounting	75mm x 75mm & 100mm x 100mm Standard VESA Mount Hole	
OS Support	Windows Vista for B98, Windows XP, WEPOS, XP Embedded, XP professional for Embedded, WIN 2000 professional Embedded, Linux	

·This specification is subject to change without prior notice.

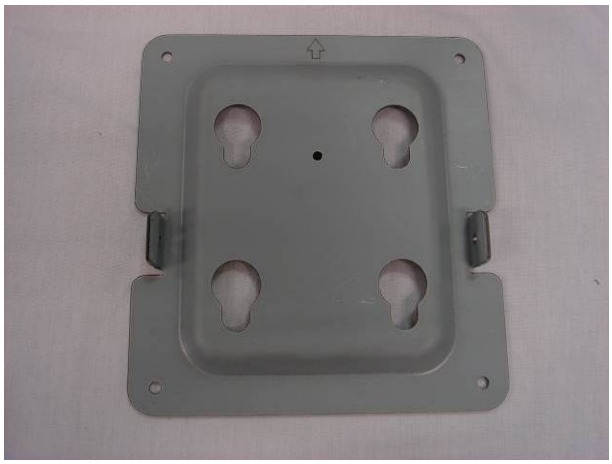
4. Peripherals Installation

4.1 Wall Mount Kit

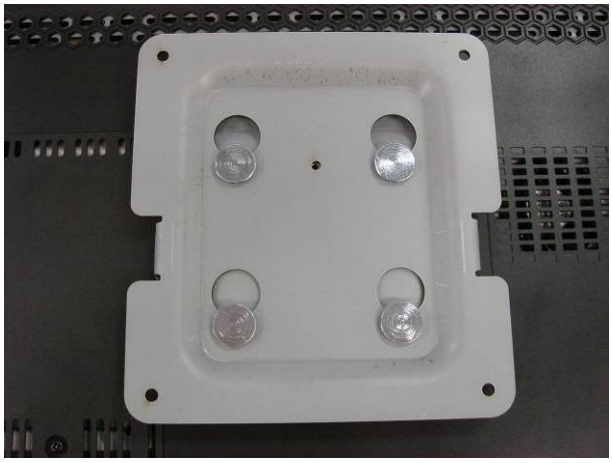
1. Put the wall mount kit bracket on the rear bezel. Tighten the screws (4).



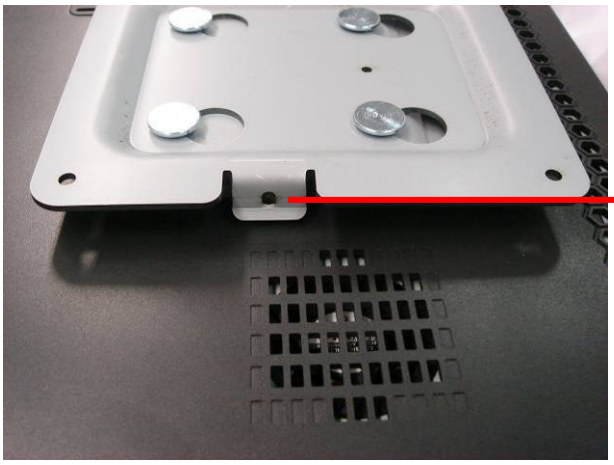
2. Tighten the screws (4) of the wall mount kit holder on the wall.

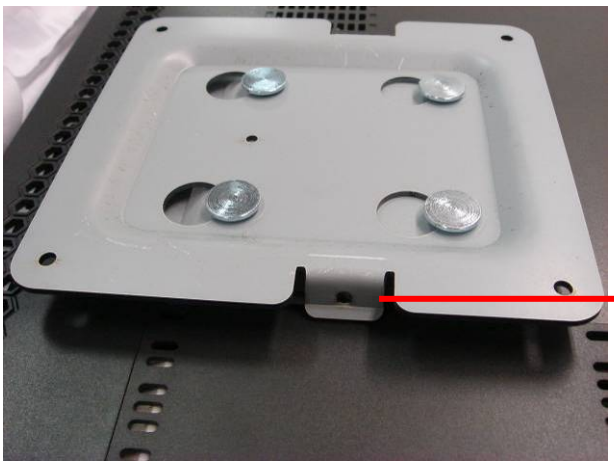


3. Hang the system on the wall mount kit holder.



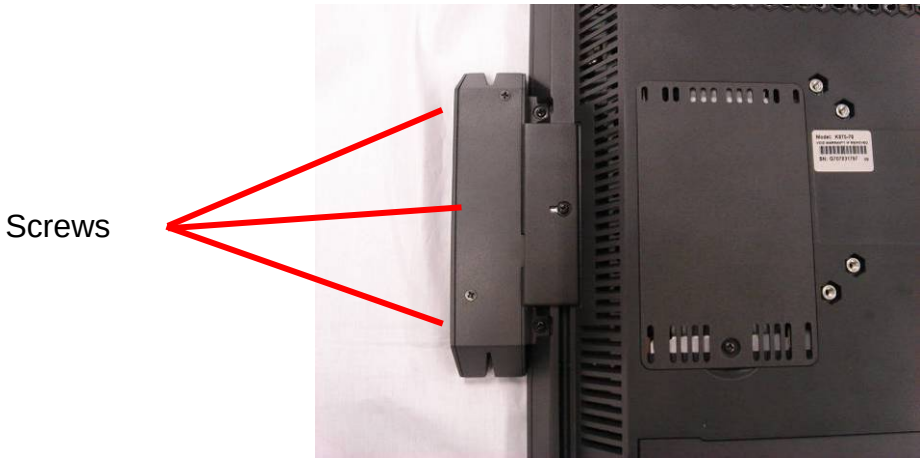
4. Tighten the screw (2).



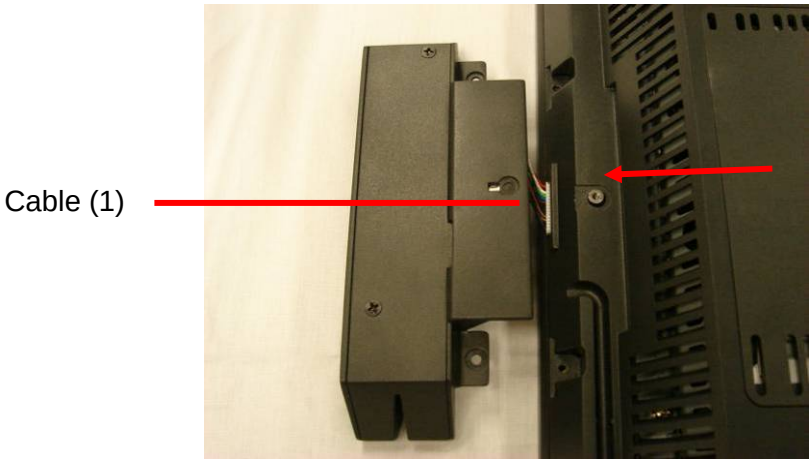


4.2 MSR

1. Remove the screws (3).

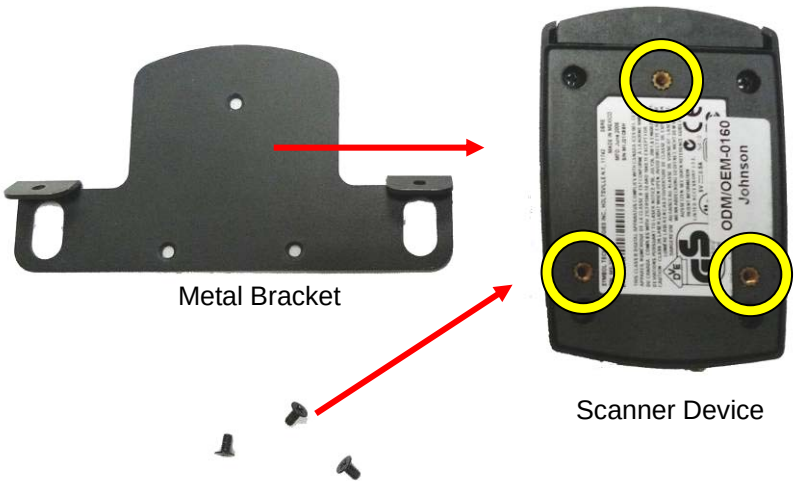


2. Slide the MSR cover out and disconnect the cable (1).

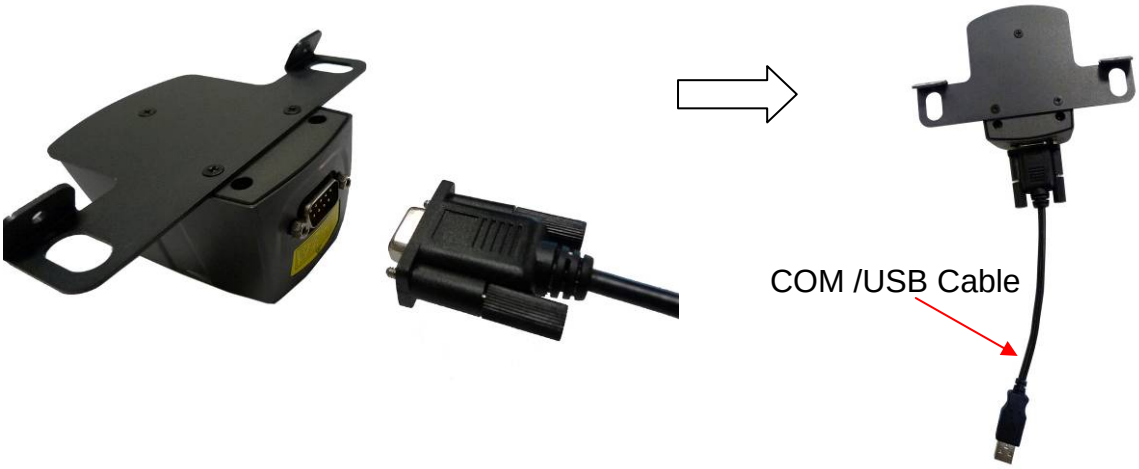


4.3 Laser Scanner Kit

1. Assembly the Scanner Device and the metal Bracket.
   Align the 3 holes on the Metal Bracket into the right position of the Scanner Device and fix them by the screws (3).

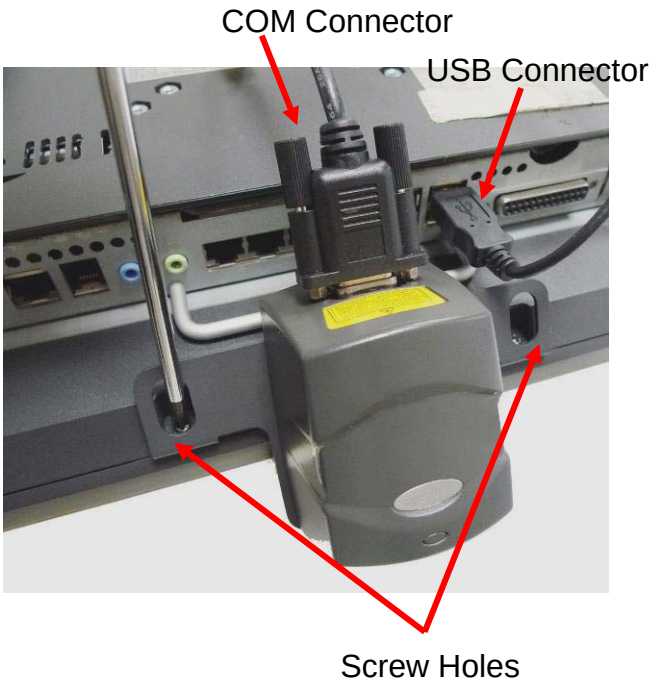


2. Connect the COM/USB Cable to the Scanner Kit.
   Connect the COM Connector to the Scanner Kit.



3. Assembly the Scanner kit to the System.
   Install the Scanner Kit in place as picture shows.

4. Fasten the Scanner Device.
   a. Connect the USB Connector to the System.
   b. Fasten the screws (2) to fix the Scanner and the System.

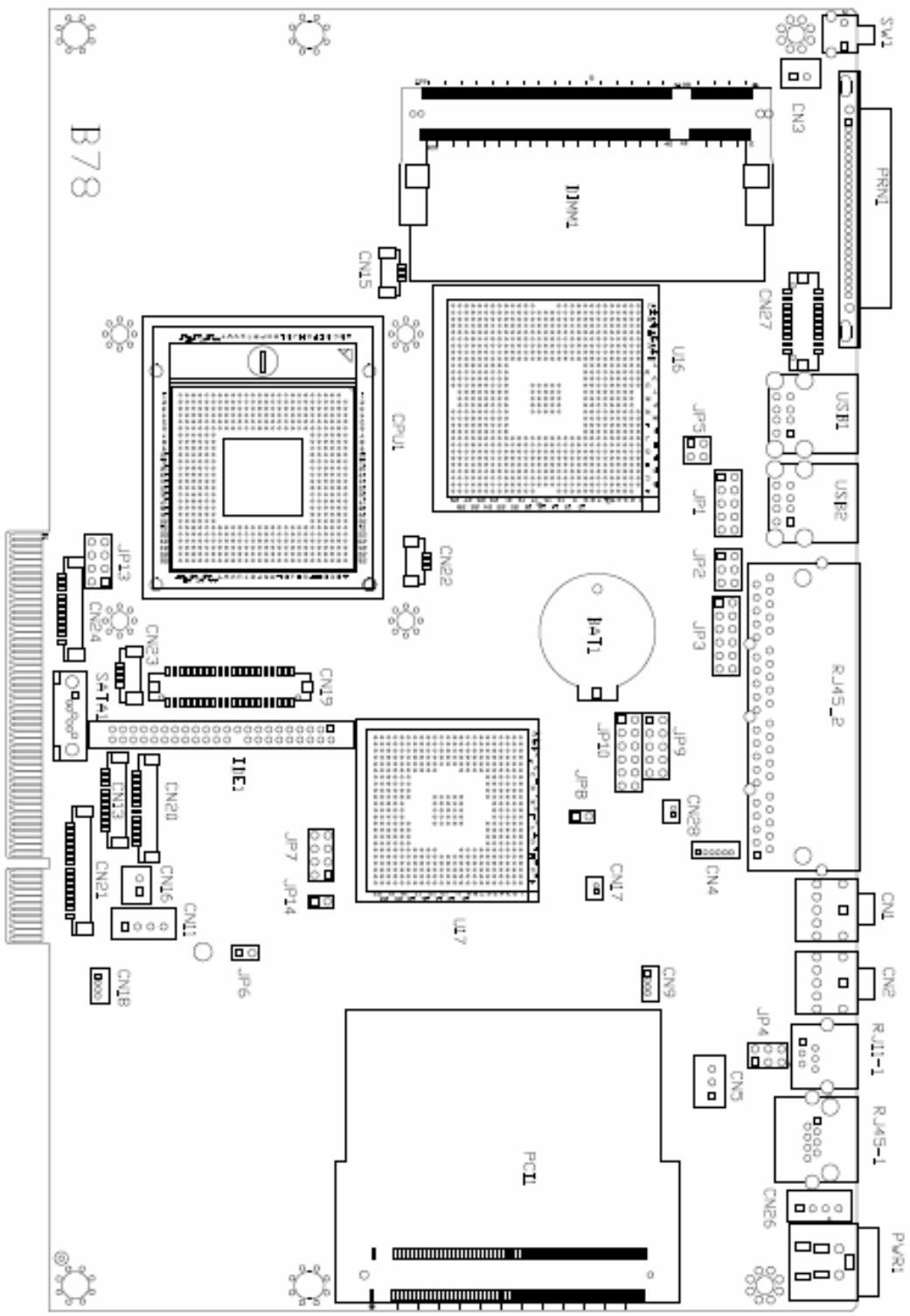


5. Front View of the Scanner Kit assembly onto the System.

5. Jumper Settings

5.1 B78 V2.2

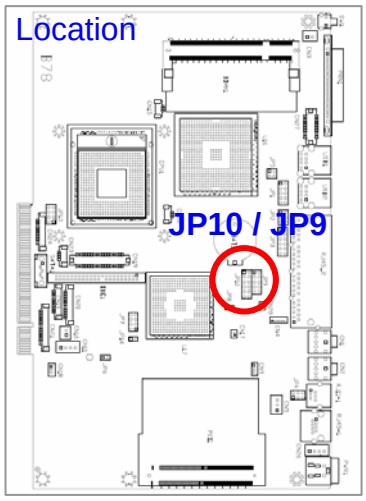
5.1.1 Motherboard layout



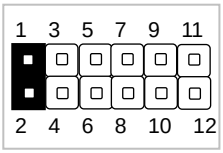
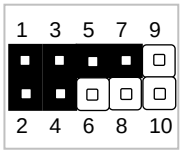
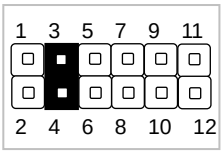
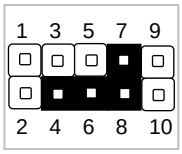
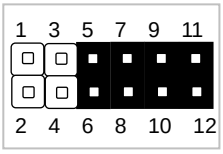
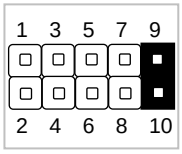
5.1.2 Connectors

Connector	Function
BAT1	CMOS Battery Base (Use CR2023)
CN1	Audio Line Out
CN2	Audio MIC In
CN3	Internal Power Switch
CN4	Speaker & MIC Connector
CN9	CD-IN Connector
CN11	Power Connector For 3.5" HDD
CN13	COM5 for Touch
CN15	CPU FAN Connector
CN16	Hardware Reset
CN18	USB2
CN19	LCD Interface Connector
CN20	Inverter Connector
CN21	Card Reader Connector
CN22	System FAN Connector
CN23	IrDA Connector
CN24	FT Status Interface
CN26	Internal Power In Connector
CN27	Internal LPT Connector
CN28	Internal PCI Reset Output Connector
IED1	Secondary IDE Connector (Pitch = 2.0mm)
PRN1	Parallel Port
PWR1	+19V Power Adaptor
RJ11_1	Cash Drawer Connector
RJ45_1	LAN (On Board)
RJ45_2	COM1, COM2, COM3, COM4
SATA1	SATA Connector
USB1	USB3, USB4
USB2	USB5, USB6
JP1	VGA Port
JP2	VGA Power

5.1.3 Jumper Settings

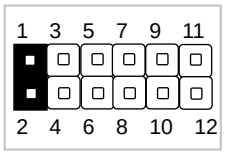
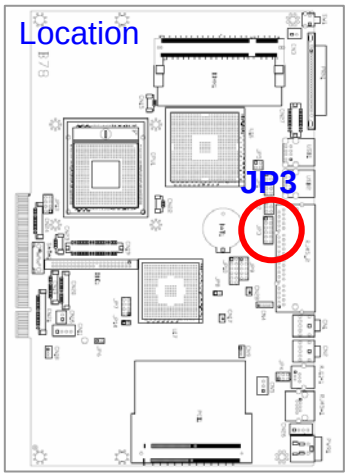
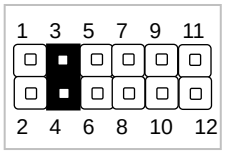
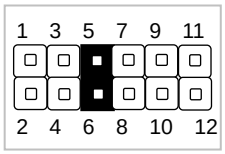
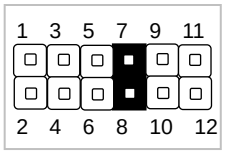
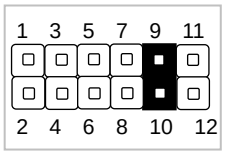
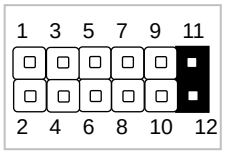


1. COM2 RS232/485/422 Setting

Function	JP10 (1-2) (3-4) (5-6) (7-8) (9-10) (11-12)	JP9 (1-2) (3-4) (4-6) (5-7) (7-8) (9-10)
◎RS232		
RS485		
RS422		

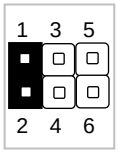
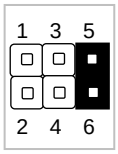
◎ = Default

2. COM3 & COM4 Power Setting

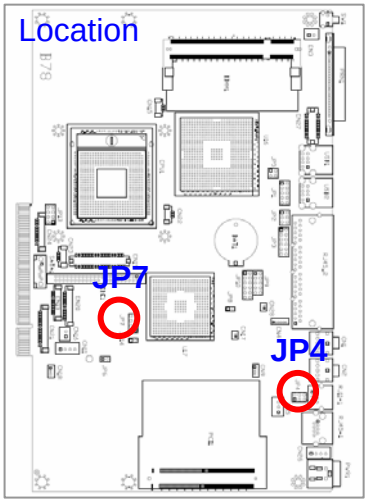
Function		JP3 (1-2) (3-4) (5-6) (7-8) (9-10) (11-12)	Location
COM3 Pin10	◎RI		
	+5V		
	+12V		
COM4 Pin10	◎RI		
	+5V		
	+12V		

◎ = Default

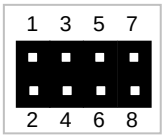
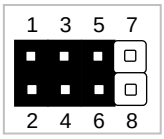
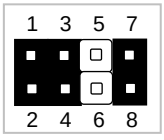
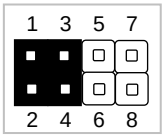
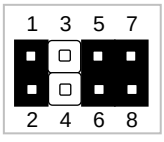
3. Cash Drawer Power Setting

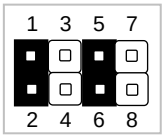
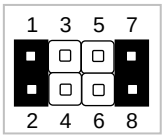
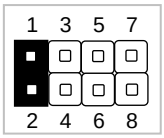
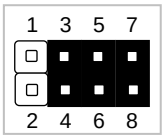
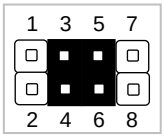
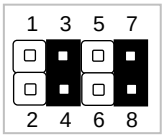
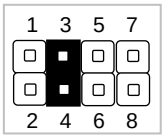
Function	JP4 (1-2) (3-4) (5-6)
+12V	
◎+19V	

◎ = Default



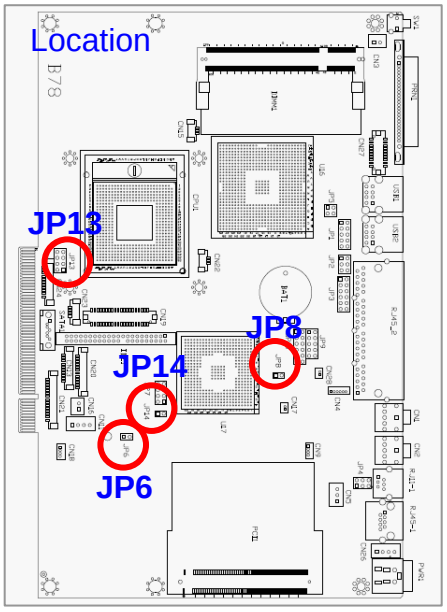
4. LCD ID Setting

Panel #	Resolution	LVDS		JP7 (1-2) (3-4) (5-6) (7-8)
		Bits	Channel	
1	640 x 480	18	Single	
2	800 x 600	18	Single	
3	1024 x 768	18	Single	
4	1280 x 1024	24	Dual	
5	1024 x 768	24	Single	

Panel #	Resolution	LVDS		JP7 (1-2) (3-4) (5-6) (7-8)
		Bits	Channel	
6	800 x 600	24	Single	
7	800 x 600	18	Single	
8	800 x 600	18	Single	
9	1024 x 768	24	Single	
10	1440 x 900	24	Dual	
11	1280 x 1024	24	Dual	
12	1440 x 900	18	Dual	

5. Power Mode Setting

Function	JP6 (1-2)
◎ATX Power	
AT Power	



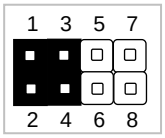
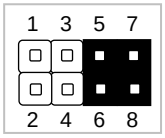
6. CMOS Operation Mode

Function	JP8 (1-2)
◎CMOS Normal	
CMOS Reset	

7. USB Path Setting

Function	JP14 (1-2)
◎To Docking	
To M/B	

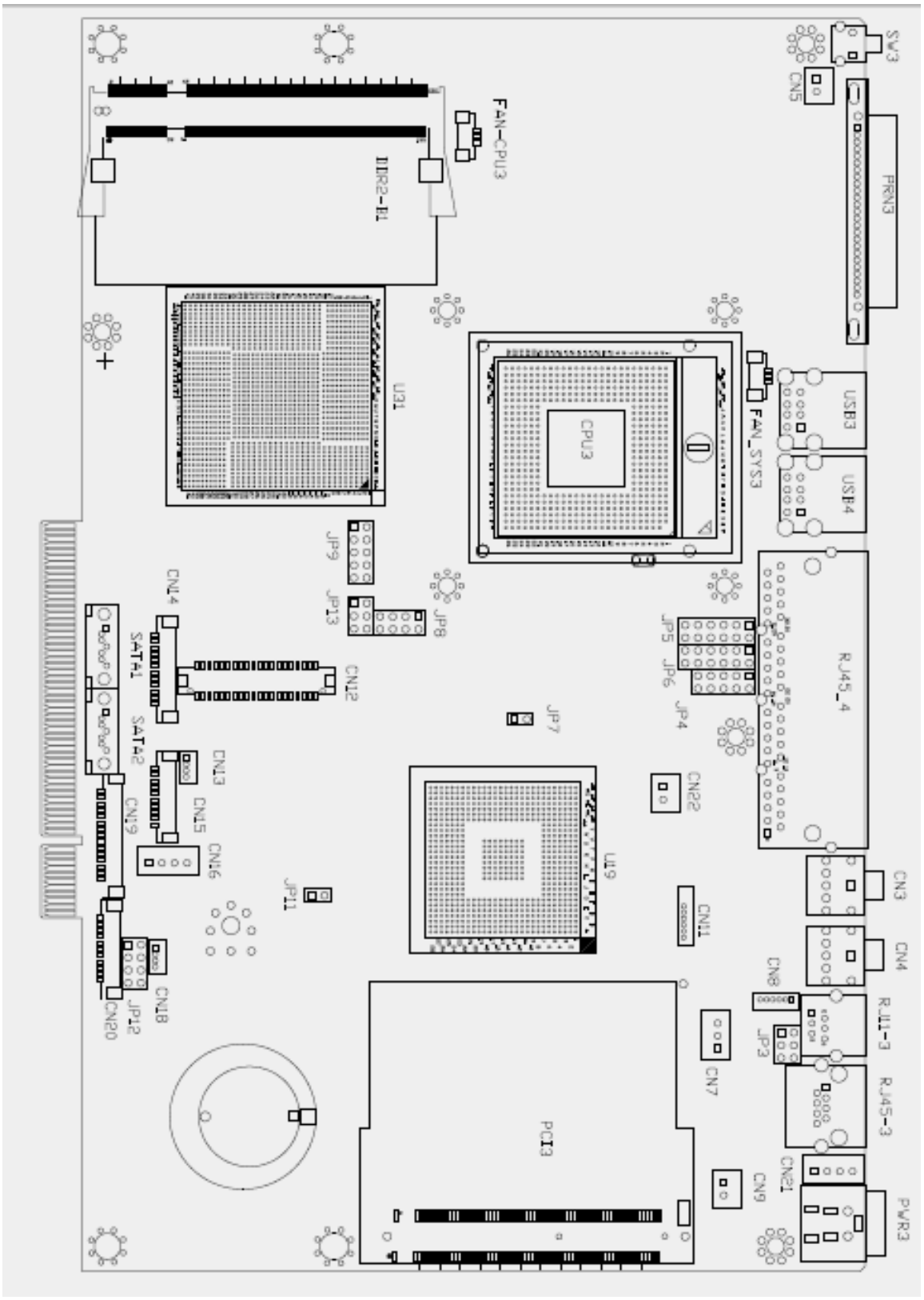
8. System Indicator Function

Function	JP13 (1-2) (3-4) (5-6) (7-8)
◎Disable	
Enable	

◎ = Default

5.2 B98 V1.0

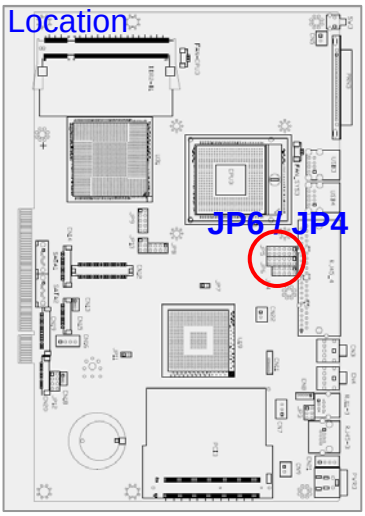
5.2.1 Motherboard layout



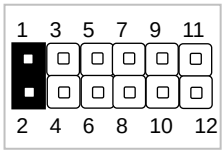
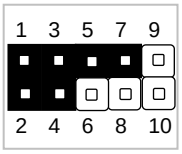
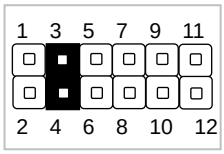
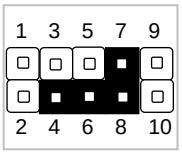
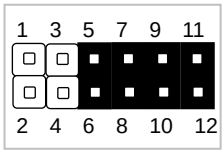
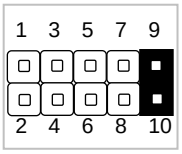
5.2.2 Connectors

Connector	Purpose
BAT3	CMOS Battery Base (Use CR2023)
CN3	Audio Line Out
CN4	MIC In
CN5	Internal Power On Switch Connector
CN8	Speaker & MIC Connector
CN9	Internal LAN LED
CN11	CD-IN / Line-In Connector
CN12	LCD Interface Connector
CN13	IrDA Connector
CN14	Inverter Connector
CN15	COM5 for Touch
CN16	Power Connector For HDD
CN18	USB5
CN19	Card Reader Connector
CN20	FT Status Interface Connector
CN21	Internal Input Power Connector
CN22	Hardware Reset
DDR2_A1	DDR2 SO-DIMM
DDR2_B1	DDR2 SO-DIMM
FAN_CPU3	CPU FAN Connector
FAN_SYS3	System FAN Connector
MINI_PCIE3	Mini PCI-E Socket
PCI3	Mini PCI Socket
PRN3	Parallel Port
PWR3	+19V Power Adaptor
RJ11_3	Cash Drawer Connector
RJ45_3	LAN (On Board)
RJ45_4	COM1, COM2, COM3, COM4
SATA1	SATA Connector
SATA2	SATA Connector
SKT1	SPI ROM
SW3	Power On Button
USB3	USB1, USB2
USB4	USB3, USB4
JP9	VGA Port
JP10	2nd Display Power

5.2.3 Jumper Setting

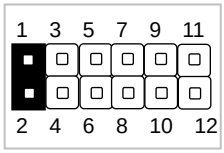
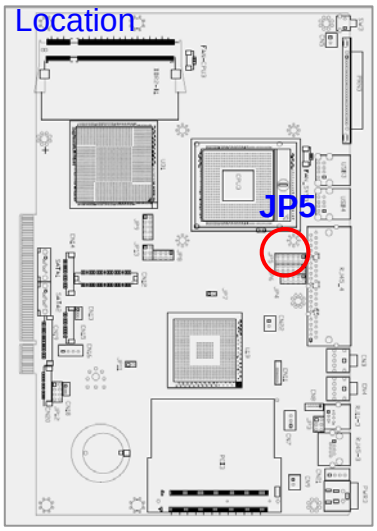
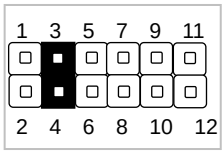
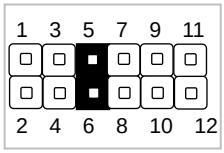
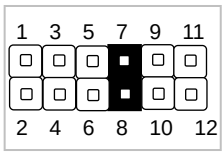
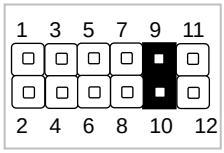
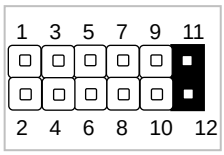


1. COM2 RS232/485/422 Setting

Function	JP6 (1-2) (3-4) (5-6) (7-8) (9-10) (11-12)	JP4 (1-2) (3-4) (4-6) (5-7) (7-8) (9-10)
◎RS232		
RS485		
RS422		

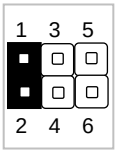
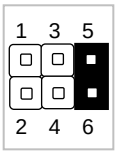
◎ = Default

2. COM3 & COM4 Power Setting

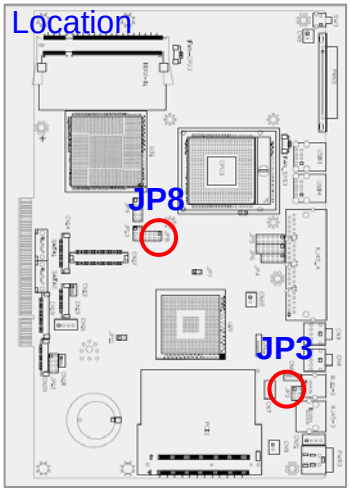
Function		JP5 (1-2) (3-4) (5-6) (7-8) (9-10) (11-12)	Location
COM3 Pin10	◎RI		
	+5V		
	+12V		
COM4 Pin10	◎RI		
	+5V		
	+12V		

◎ = Default

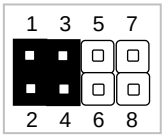
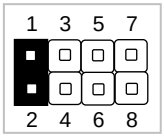
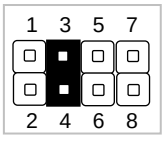
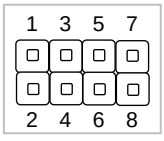
3. Cash Drawer Power Setting

Function	JP3 (1-2) (3-4) 5-6)
+12V	
◎+19V	

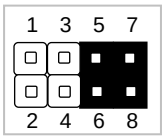
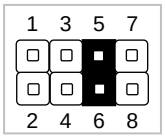
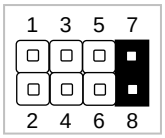
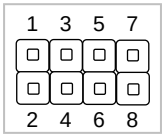
◎ = Default



4. Boot Display Device Setting

Function	JP8 (1-2) (3-4)
Reserved	
Force CRT only	
Force LCD only	
Reserved	

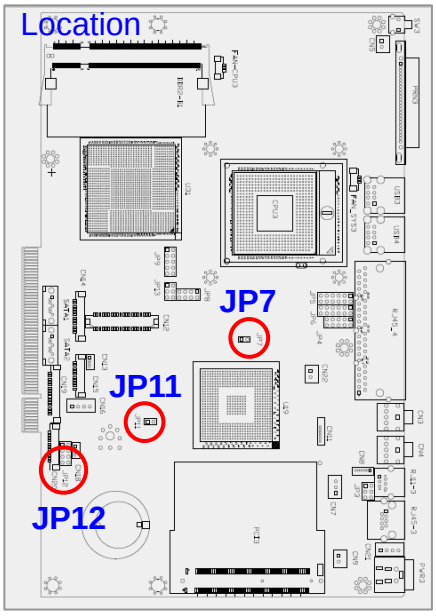
5. LCD ID Setting

Panel #	Resolution	LVDS		JP8 (1-2) (3-4) (5-6) (7-8)
		Bits	Channel	
1	1024 x 768	24	Single	
2	1280 x 1024	24	Dual	
3	800 x 600	24	Single	
4	1024 x 768	18	Single	

Note: The Jumper setting for "**Boot Display Device Setting**" and "**LCD ID Setting**" are the same at Jumper JP8.

6. Power Mode Setting

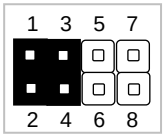
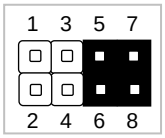
Function	JP11 (1-2)
◎ATX Power	
AT Power	



7. CMOS Operation Mode

Function	JP7 (1-2)
◎CMOS Normal	
CMOS Reset	

8. System Indicator Function

Function	JP12 (1-2) (3-4) (5-6) (7-8)
◎Disable	
Enable	

◎ = Default

Note:

OPEN

SHORT

6. Drivers Installation

6.1 B78 V2.2

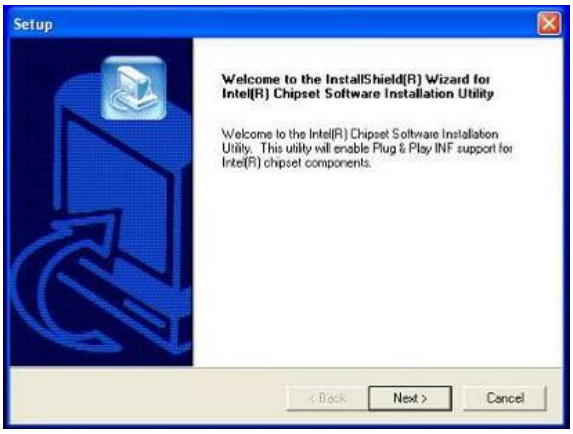
6.1.1 Driver List

Folder/File	File Description
<CD>:\ K870_B78.htm	Driver List
<CD>:\COMMON\INTEL\Chipset\i8xx	Chipset Driver
<CD>:\COMMON\INTEL\USB20	USB 2.0 Driver
<CD>:\COMMON\INTEL\VGA\i85x	VGA Driver
<CD>:\COMMON\Ac97_codec\Realtek\ALC202A	Audio Driver
<CD>:\COMMON\ POS_Touch	POSTouch Driver
<CD>:\COMMON\ELO_Touch	ELO Touch Driver
<CD>:\COMMON\Lan_driver\Realtek_PCI	10/100/1000Mb LAN Driver

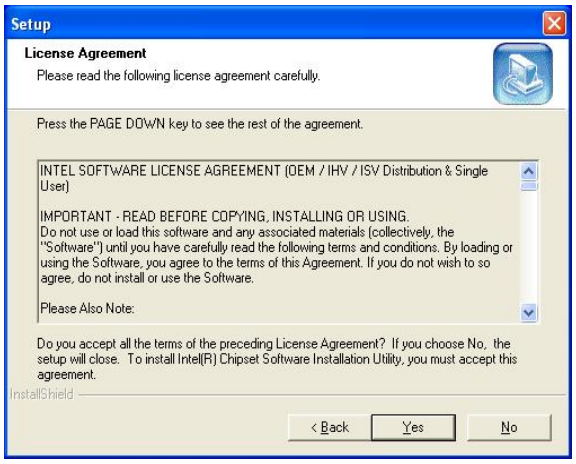
-The following procedures are for Windows 2000/XP, other platforms are similar.

6.1.2 Chipset Driver Installation

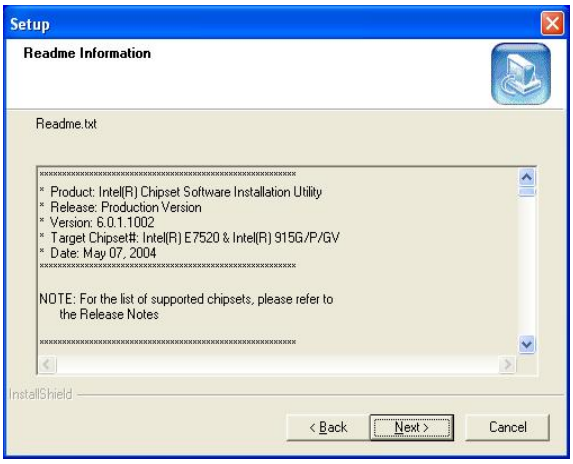
a. Double-click "**infinst_enu_6.0.1.1007.exe**" on the "**My computer**" window.


Setup
Welcome to the InstallShield(R) Wizard for Intel(R) Chipset Software Installation Utility
Welcome to the Intel(R) Chipset Software Installation Utility. This utility will enable Plug & Play INF support for Intel(R) chipset components.
< Back
Next >
Cancel

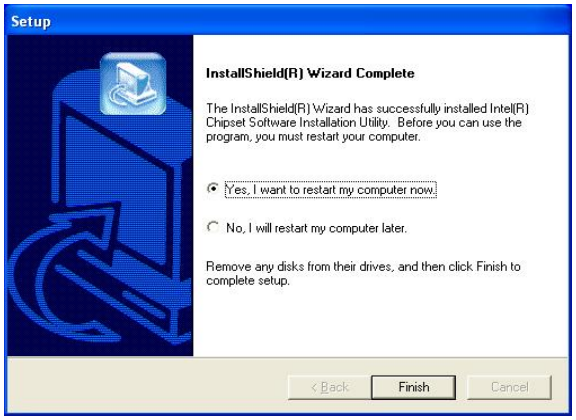
b. Click the "**Next**" button on the Welcome window.


Setup
License Agreement
Please read the following license agreement carefully.
Press the PAGE DOWN key to see the rest of the agreement.
INTEL SOFTWARE LICENSE AGREEMENT (OEM / IHV / ISV Distribution & Single User)
IMPORTANT - READ BEFORE COPYING, INSTALLING OR USING.
Do not use or load this software and any associated materials (collectively, the "Software") until you have carefully read the following terms and conditions. By loading or using the Software, you agree to the terms of this Agreement. If you do not wish to so agree, do not install or use the Software.
Please Also Note:
Do you accept all the terms of the preceding License Agreement? If you choose No, the setup will close. To install Intel(R) Chipset Software Installation Utility, you must accept this agreement.
InstallShield
< Back
Yes
No

c. Click the "**Yes**" button on the License Agreement window.


Setup
Readme Information
Readme.txt
* Product: Intel(R) Chipset Software Installation Utility
* Release: Production Version
* Version: 6.0.1.1002
* Target Chipset#: Intel(R) E7520 & Intel(R) 915G/P/GV
* Date: May 07, 2004
NOTE: For the list of supported chipsets, please refer to the Release Notes
InstallShield
< Back
Next >
Cancel

d. Click the "**Next**" button on the Readme Information window.

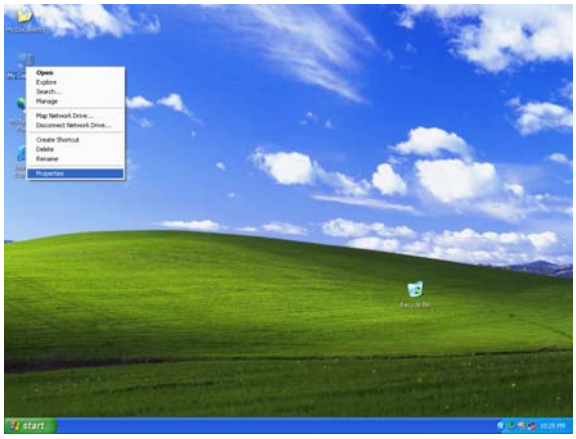

Setup
InstallShield(R) Wizard Complete
The InstallShield(R) Wizard has successfully installed Intel(R) Chipset Software Installation Utility. Before you can use the program, you must restart your computer.
Yes, I want to restart my computer now.
No, I will restart my computer later.
Remove any disks from their drives, and then click Finish to complete setup.
< Back
Finish
Cancel

e. Click the "**Finish**" button and restart your system.

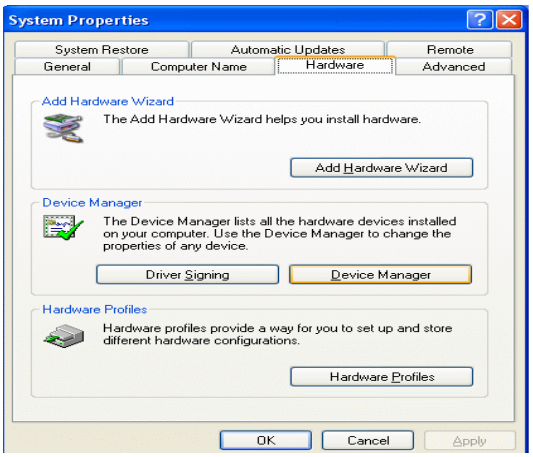
6.1.3 USB 2.0 Driver Installation

OS Requirements

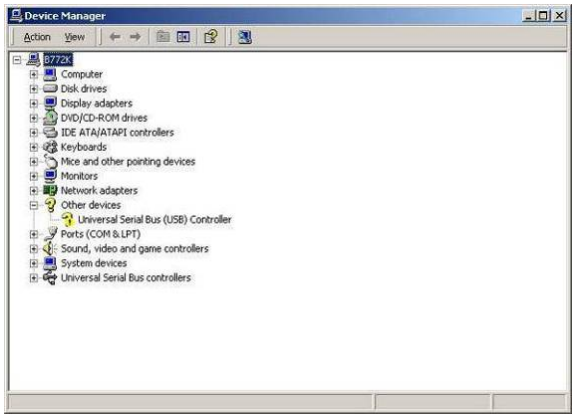
OS	USB 2.0 requirements
Windows XP	USB 2.0 drivers are provided in Service Pack 1 (SP1) for Windows XP, which is available through Windows Update.
Windows 2000	USB 2.0 drivers are available through Windows Update or Service Pack 4.
Windows 98SE/Me	USB 2.0 drivers are available on the Intel developer site.
Windows 98 (Retail)	Developers and OEMs should contact Orange Ware. For end-users, if your device does not ship with Windows 98 drivers, contact your device or system manufacturer. If USB 2.0 drivers are not available, your device will operate at USB 1.1 speeds
Linux	USB 2.0 support is available in kernel 2.4.19 or later development kernels, or in the 2.4.19 or later production kernel. More information.

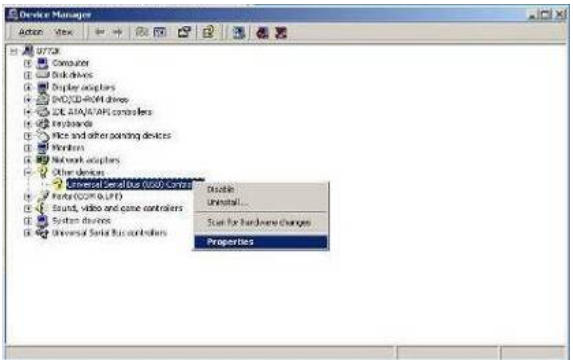


a. Right click "**My Computer**" on the desktop and select "**properties**"



b. Select "**Hardware**"→"**Device Manager**" on system properties





c. Select "**Other Devices**" → "**Universal Serial Bus (USB) Controller**" →"**Properties**" on Device Manager

Universal Serial Bus (USB) Controller Properties
General
Driver
Resources
Universal Serial Bus (USB) Controller
Driver Provider: Unknown
Driver Date: Not available
Driver Version: Not available
Digital Signer: Not digitally signed
No driver files are required or have been loaded for this device. To uninstall the driver files for this device, click Uninstall. To update the driver files for this device, click Update Driver.
Driver Details...
Uninstall
Update Driver...
OK
Cancel

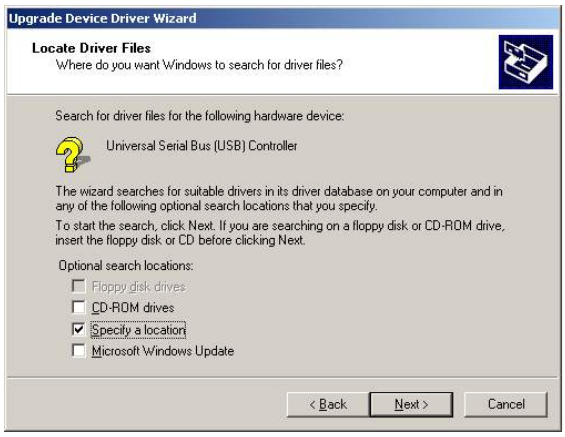
d. Select "**Device**"→ "Update Driver

Upgrade Device Driver Wizard
Welcome to the Upgrade Device Driver Wizard
This wizard helps you upgrade a device driver for a hardware device.
To continue, click Next.
< Back
Next >
Cancel

e. Click the "**Next**" button on the welcome window.

Upgrade Device Driver Wizard
Install Hardware Device Drivers
A device driver is a software program that enables a hardware device to work with an operating system.
This wizard upgrades drivers for the following hardware device:
Universal Serial Bus (USB) Controller
Upgrading to a newer version of a device driver may add functionality to or improve the performance of this device.
What do you want the wizard to do?
Search for a suitable driver for my device (recommended)
Display a list of the known drivers for this device so that I can choose a specific driver
< Back
Next >
Cancel

f. Select "**Search for a suitable…**"and click the "**Next**" button on the Install Hardware Device Drivers window


Upgrade Device Driver Wizard
Locate Driver Files
Where do you want Windows to search for driver files?
Search for driver files for the following hardware device:
Universal Serial Bus (USB) Controller
The wizard searches for suitable drivers in its driver database on your computer and in any of the following optional search locations that you specify.
To start the search, click Next. If you are searching on a floppy disk or CD-ROM drive, insert the floppy disk or CD before clicking Next.
Optional search locations:
Floppy disk drives
CD-ROM drives
Specify a location
Microsoft Windows Update
< Back
Next >
Cancel

g. Select "**Specify a location**" and click the "**Next**" button on the Locate Driver Files window.

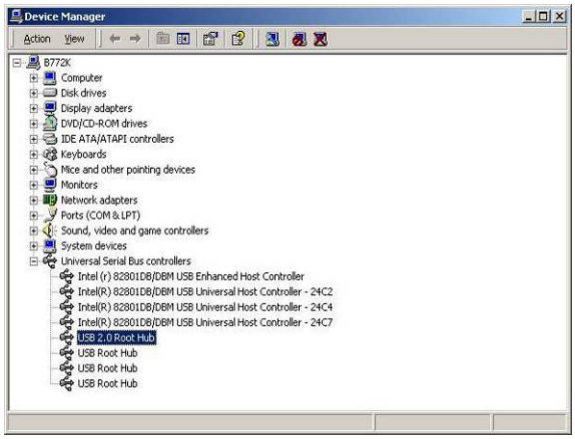
h. Press "**Browse**" to select the driver and then click the "**OK**" button to go to the next page

Upgrade Device Driver Wizard
Driver Files Search Results
The wizard has finished searching for driver files for your hardware device.
The wizard found a driver for the following device:
Intel (r) 82801DB/DBM USB Enhanced Host Controller
Windows found a driver that is a closer match for this device than your current driver.
To install the driver Windows found, click Next.
c:\winnt\inf\usb.inf
The wizard also found other drivers that are suitable for this device. To view a list of these drivers or install one of these drivers, select the following check box, and then click Next.
Install one of the other drivers
< Back
Next >
Cancel

i. Click the "**Next**" button on the Driver Files Search Results window.

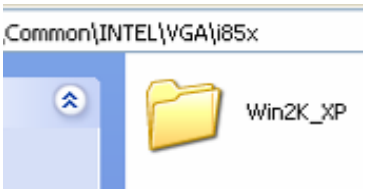
Upgrade Device Driver Wizard
Completing the Upgrade Device Driver Wizard
Intel (r) 82801DB/DBM USB Enhanced Host Controller
Windows has finished installing the software for this device.
To close this wizard, click Finish.
< Back
Finish
Cancel

j. Click the "**Finish**" button to complete this process.

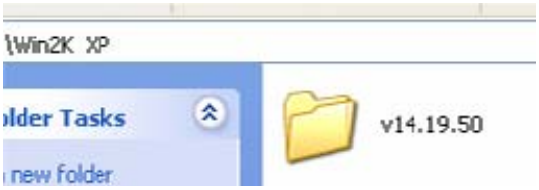


k. Finished.

6.1.4 VGA Driver Installation

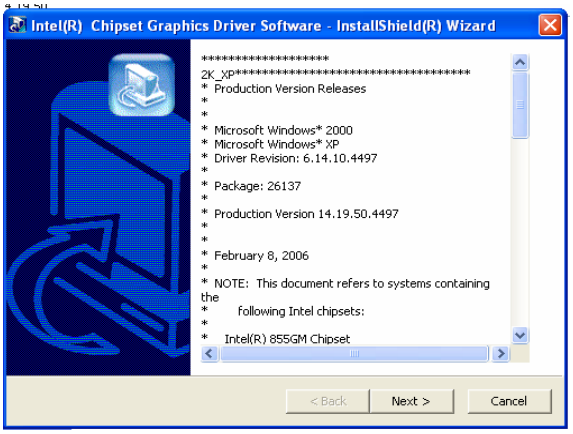


a. Double-click on "**Win2K_XP**" on the"**My Computer**" window.

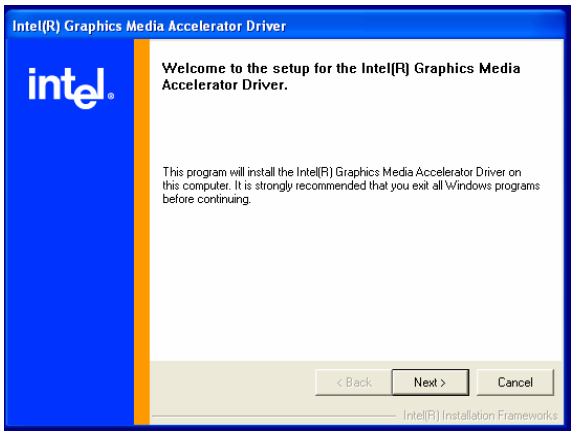


b. Double-click on "**v14.19.50**"

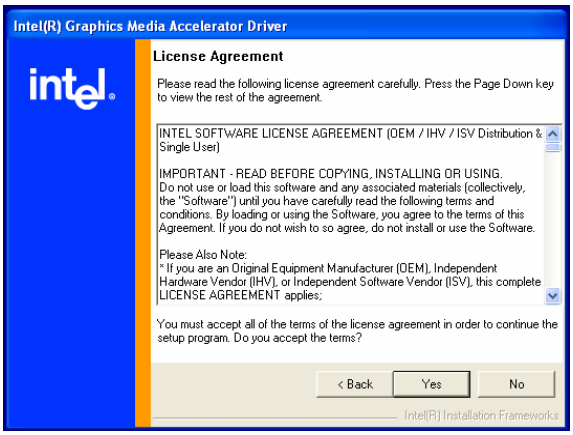
c. Double-click on "**win2K_xp141950.exe**"


Intel(R) Chipset Graphics Driver Software - InstallShield(R) Wizard
2K_XP
* Production Version Releases
* Microsoft Windows* 2000
* Microsoft Windows* XP
* Driver Revision: 6.14.10.4497
* Package: 26137
* Production Version 14.19.50.4497
* February 8, 2006
* NOTE: This document refers to systems containing the following Intel chipsets:
* Intel(R) 855GM Chipset
< Back
Next >
Cancel

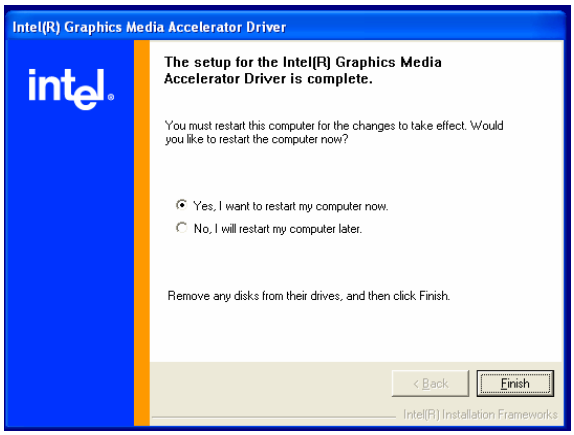
d. Click the "**Next**" button on the Intel(R) Chipset Graphics Driver Software- Install Shield(R) Wizard window.


Intel(R) Graphics Media Accelerator Driver
intel
Welcome to the setup for the Intel(R) Graphics Media Accelerator Driver.
This program will install the Intel(R) Graphics Media Accelerator Driver on this computer. It is strongly recommended that you exit all Windows programs before continuing.
< Back
Next >
Cancel
Intel(R) Installation Frameworks

e. Click the "**Next**" button on the Intel(R) Graphics Media Accelerator Driver window.

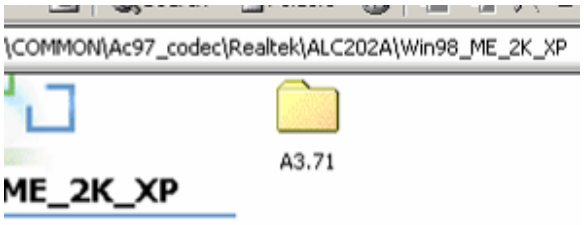

Intel(R) Graphics Media Accelerator Driver
intel
License Agreement
Please read the following license agreement carefully. Press the Page Down key to view the rest of the agreement.
INTEL SOFTWARE LICENSE AGREEMENT (OEM / IHV / ISV Distribution & Single User)
IMPORTANT - READ BEFORE COPYING, INSTALLING OR USING.
Do not use or load this software and any associated materials (collectively, the "Software") until you have carefully read the following terms and conditions. By loading or using the Software, you agree to the terms of this Agreement. If you do not wish to so agree, do not install or use the Software.
Please Also Note:
* If you are an Original Equipment Manufacturer (OEM), Independent Hardware Vendor (IHV), or Independent Software Vendor (ISV), this complete LICENSE AGREEMENT applies;
You must accept all of the terms of the license agreement in order to continue the setup program. Do you accept the terms?
< Back
Yes
No
Intel(R) Installation Frameworks

f. Click the "**Yes**" button on the Intel(R) Graphics Media Accelerator Driver window.

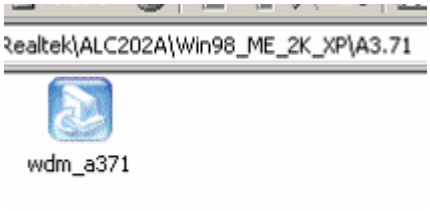

Intel(R) Graphics Media Accelerator Driver
intel
The setup for the Intel(R) Graphics Media Accelerator Driver is complete.
You must restart this computer for the changes to take effect. Would you like to restart the computer now?
Yes, I want to restart my computer now.
No, I will restart my computer later.
Remove any disks from their drives, and then click Finish.
< Back
Finish
Intel(R) Installation Frameworks

g. Select "**Yes, I want to restart my computer now**" and click the "Finish" button on the Intel(R) Graphics Media Accelerator Driver window.

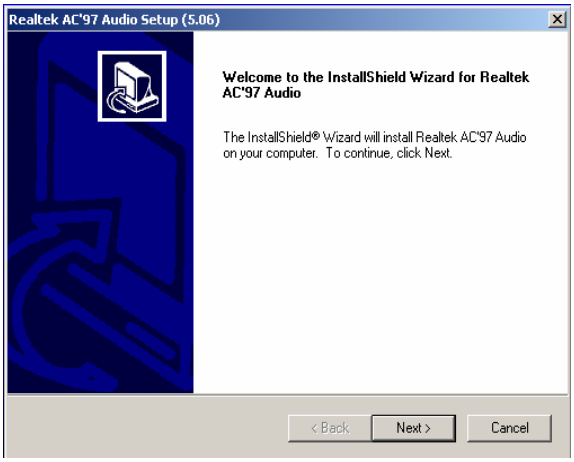
6.1.5 Audio Driver Installation



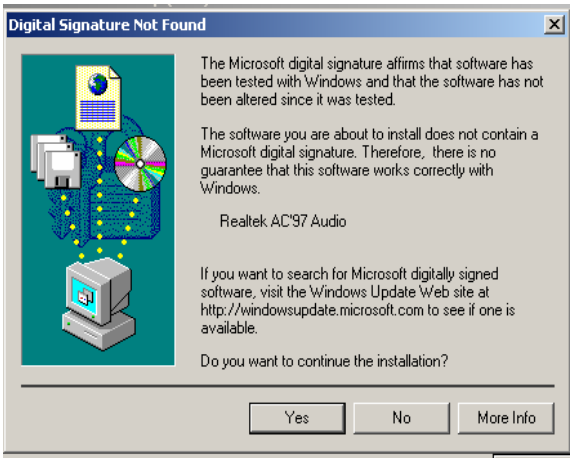
a. Double-click "**A3.71**" on the My Computer window.



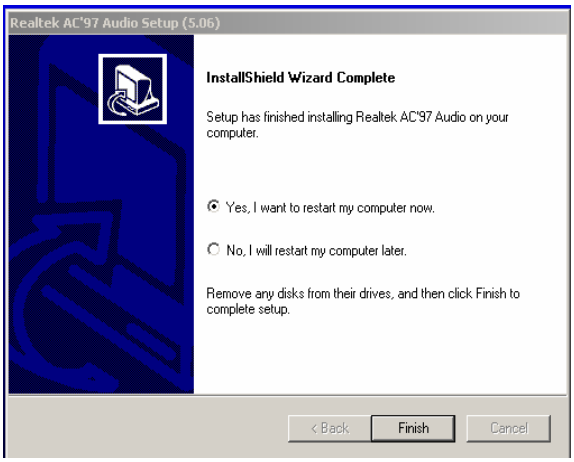
b. Double-click "**wdm_a371.exe**" on the My Computer window.


Realtek AC'97 Audio Setup (5.06)
Welcome to the InstallShield Wizard for Realtek AC'97 Audio
The InstallShield® Wizard will install Realtek AC'97 Audio on your computer. To continue, click Next.
< Back
Next >
Cancel

c. Click "**Next**" button on the Realtek AC'97 Audio Setup window.


Digital Signature Not Found
The Microsoft digital signature affirms that software has been tested with Windows and that the software has not been altered since it was tested.
The software you are about to install does not contain a Microsoft digital signature. Therefore, there is no guarantee that this software works correctly with Windows.
Realtek AC'97 Audio
If you want to search for Microsoft digitally signed software, visit the Windows Update Web site at http://windowsupdate.microsoft.com to see if one is available.
Do you want to continue the installation?
Yes
No
More Info

d. Click "**Yes**" button on the Digital Signature Not Found window.


Realtek AC'97 Audio Setup (5.06)
InstallShield Wizard Complete
Setup has finished installing Realtek AC'97 Audio on your computer.
Yes, I want to restart my computer now.
No, I will restart my computer later.
Remove any disks from their drives, and then click Finish to complete setup.
< Back
Finish
Cancel

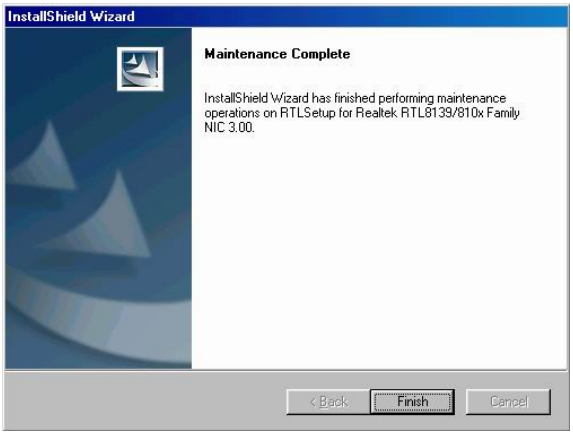
e. Click "**Finish**" button on the Realtek AC'97 Audio Setup window.

6.1.6 10/100/1000Mb LAN Driver Installation

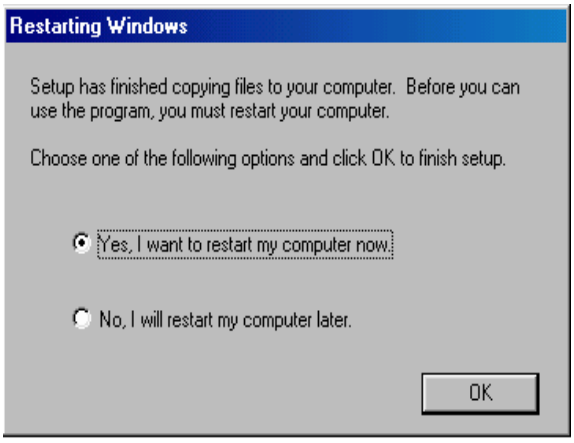
a. In the "**Realtek RTL8110**" section, click on "**Win9X, ME, 2K, XP**".

b. Double-click "**v709**"

c. Double-click "**Setup.exe**".



d. Click the "**Finish**" button on the Maintenance Complete window.

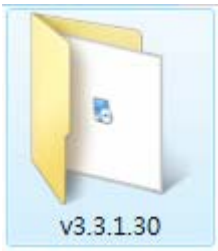

Restarting Windows
Setup has finished copying files to your computer. Before you can use the program, you must restart your computer.
Choose one of the following options and click OK to finish setup.
Yes, I want to restart my computer now.
No, I will restart my computer later.
OK

e. Click the "**OK**" button and restart your system.

6.1.7 POSTouch Driver Installation

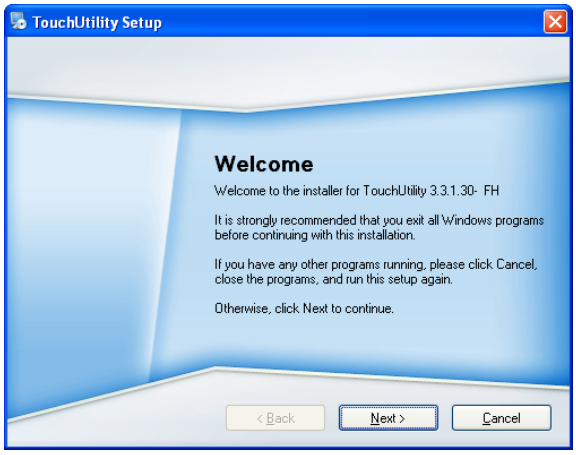
Below POSTouch Driver Installation is for the Motherboards B78 V2.2 and B98 V1.0.

a. In the "**POSTouch**" section, click "**Windows**".



b. Double-click on "**v3.3.1.30**".

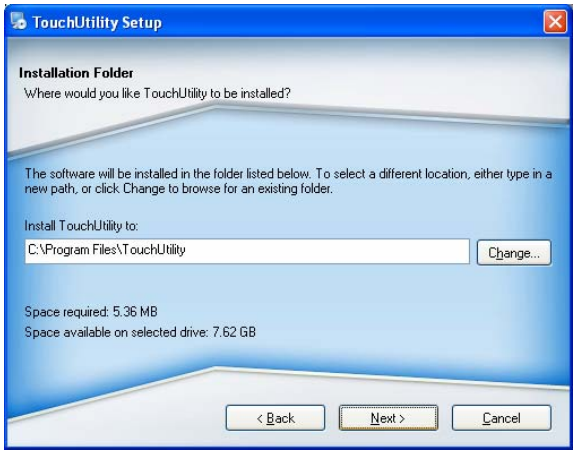
c. Double-click "**Setup**".exe.


TouchUtility Setup
Welcome
Welcome to the installer for TouchUtility 3.3.1.30- FH
It is strongly recommended that you exit all Windows programs before continuing with this installation.
If you have any other programs running, please click Cancel, close the programs, and run this setup again.
Otherwise, click Next to continue.
< Back
Next >
Cancel

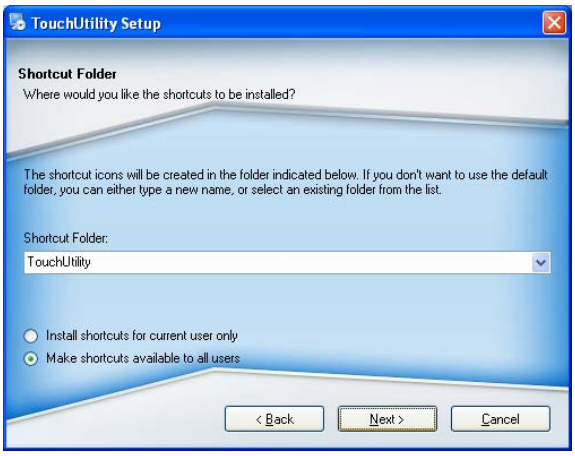
d. Click "**Next**".

TouchUtility Setup
License Agreement
Please read the following license agreement carefully.
License For Customer Use of TouchUtility Software
IMPORTANT NOTICE - READ CAREFULLY: This License Agreement for use of TouchUtility Software ("LICENSE") is a legal agreement between you ("CUSTOMER") and TouchUtility Inc. ("TouchUtility") which governs use of the software contained on this media. This includes all software and documentation contained herein ("SOFTWARE"). By downloading, installing, copying, or otherwise using the SOFTWARE, you agree to be bound by the terms of this LICENSE. If you do not agree to the terms of this LICENSE, quit the install program now and do not install or use the SOFTWARE.
RECITALS
Use of TouchUtility's products requires three elements: the SOFTWARE, one or more pieces
I agree to the terms of this license agreement
I do not agree to the terms of this license agreement
< Back
Next >
Cancel

e. Select "**I agree**… and click "**Next**".


TouchUtility Setup
Installation Folder
Where would you like TouchUtility to be installed?
The software will be installed in the folder listed below. To select a different location, either type in a new path, or click Change to browse for an existing folder.
Install TouchUtility to:
C:\Program Files\TouchUtility
Change...
Space required: 5.36 MB
Space available on selected drive: 7.62 GB
< Back
Next >
Cancel

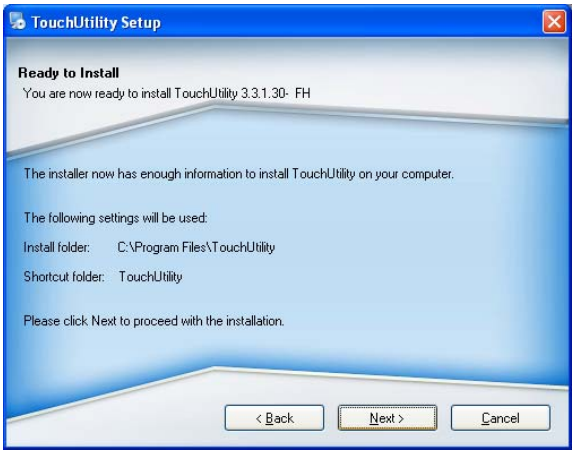
f. Select the installation folder for the touch utility driver and click "**Next**".


TouchUtility Setup
Shortcut Folder
Where would you like the shortcuts to be installed?
The shortcut icons will be created in the folder indicated below. If you don't want to use the default folder, you can either type a new name, or select an existing folder from the list.
Shortcut Folder:
TouchUtility
Install shortcuts for current user only
Make shortcuts available to all users
< Back
Next >
Cancel

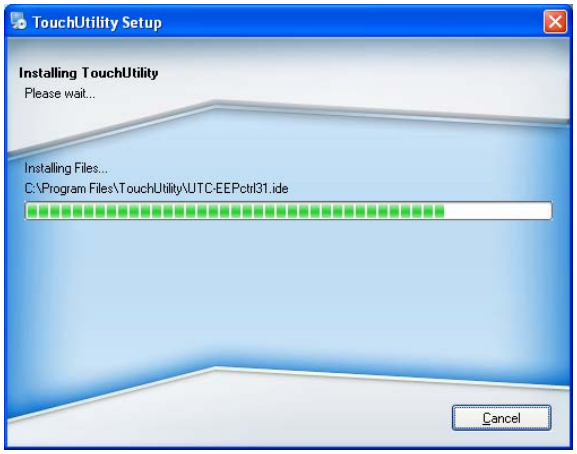
g. Select the shortcut folder for the touch utility driver and click "**Next**".

TouchUtility Setup
Options
Select the options you want and click Next to continue.
Please select from the following options:
RS232
USB
Note: You may select as many options as you want.
< Back
Next >
Cancel

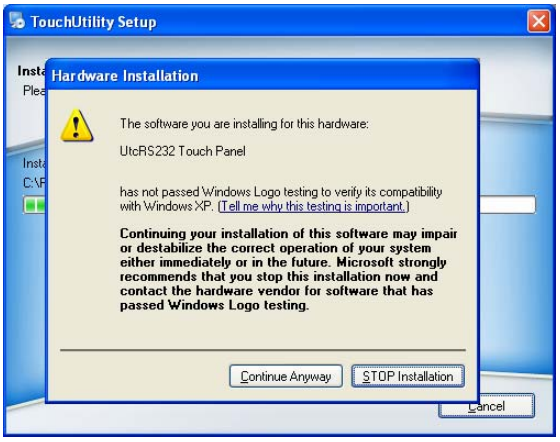
h. Click "**Next**"


TouchUtility Setup
Ready to Install
You are now ready to install TouchUtility 3.3.1.30- FH
The installer now has enough information to install TouchUtility on your computer.
The following settings will be used:
Install folder: C:\Program Files\TouchUtility
Shortcut folder: TouchUtility
Please click Next to proceed with the installation.
< Back
Next >
Cancel

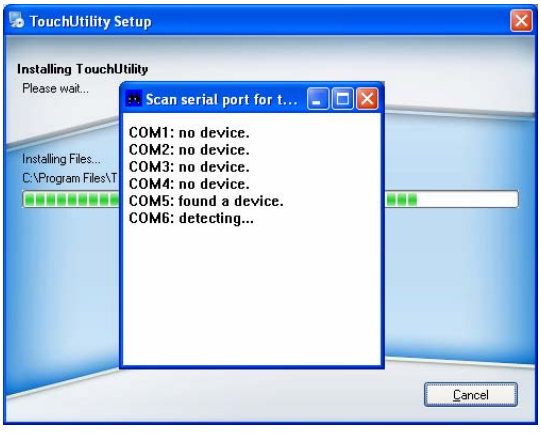
i. Click "**Next**".



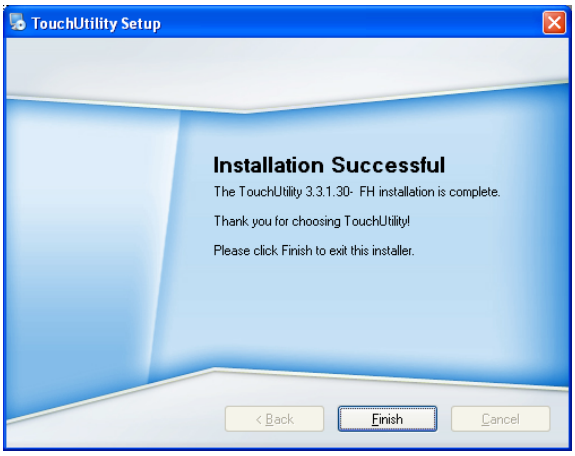
j. The computer is installing the touch driver


TouchUtility Setup
Hardware Installation
The software you are installing for this hardware:
UtcRS232 Touch Panel
has not passed Windows Logo testing to verify its compatibility with Windows XP. (Tell me why this testing is important.)
Continuing your installation of this software may impair or destabilize the correct operation of your system either immediately or in the future. Microsoft strongly recommends that you stop this installation now and contact the hardware vendor for software that has passed Windows Logo testing.
Continue Anyway
STOP Installation
Cancel

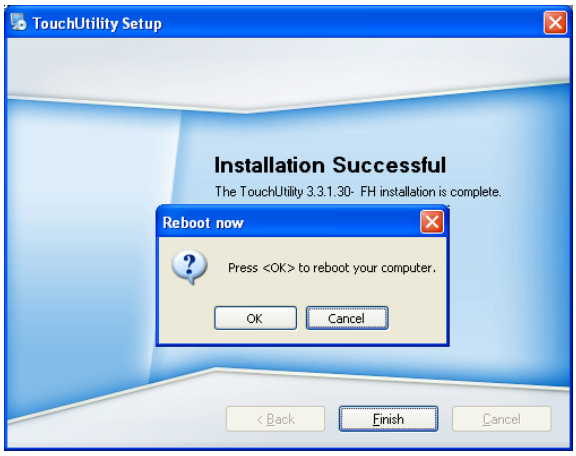
k. Click "**Continue Anyway**".



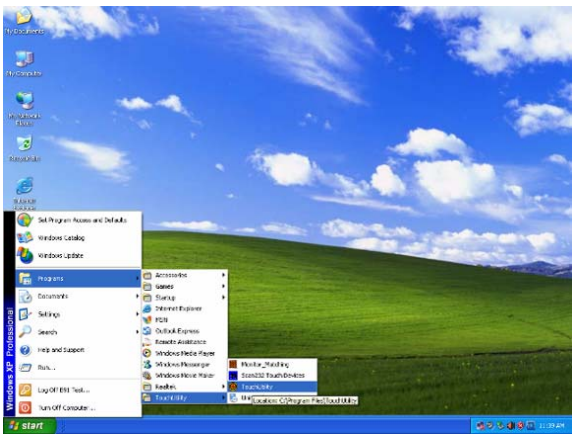
l. The serial ports are scanned for a touch device. The Touch panel is on "**COM5**".



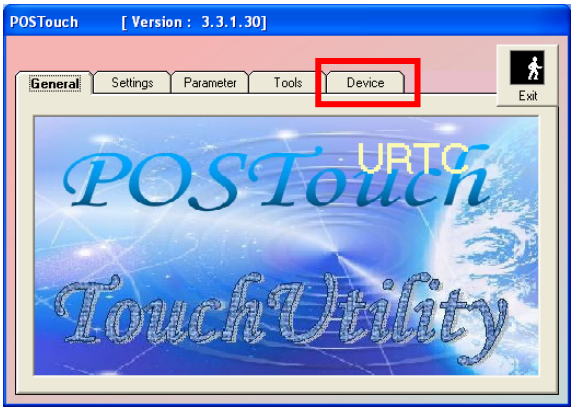
m. Click “**Finish**”.



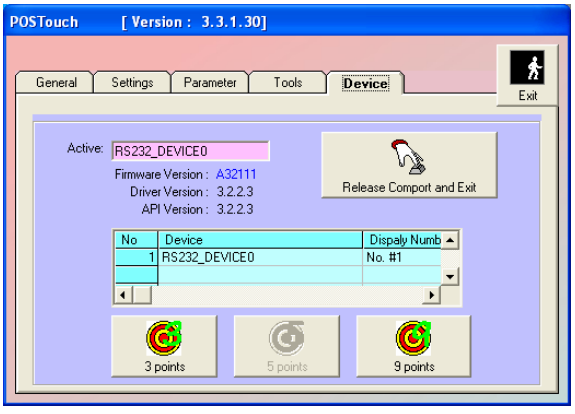
n. Click “**OK**” to restart the computer and finish the touch utility installation.



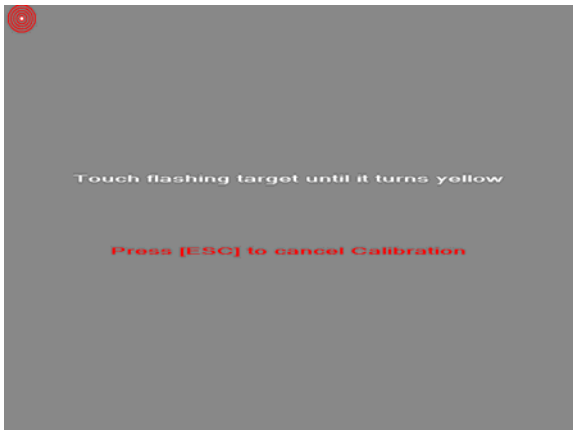
o. The computer has restarted. Click on the Start button, select Programs, then select Touchutility.



p. Select the **“Device”** tab.



q. Click on the 3 points or the 9 points calibration button.



r. Follow the instructions on the screen to do the calibration of the touch panel

s. Touch the screen to save the calibration

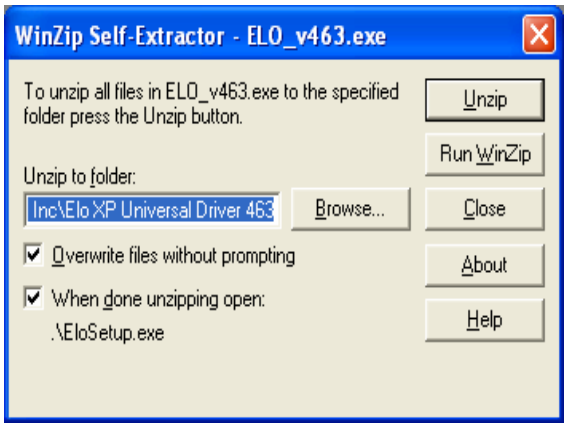
6.1.8 ELO Touch Driver Installation

Below ELO Touch Driver Installation is for the Motherboards B78 V2.2 and B98 V1.0.

a. In the “**ELO**” section, click on “Windows”.

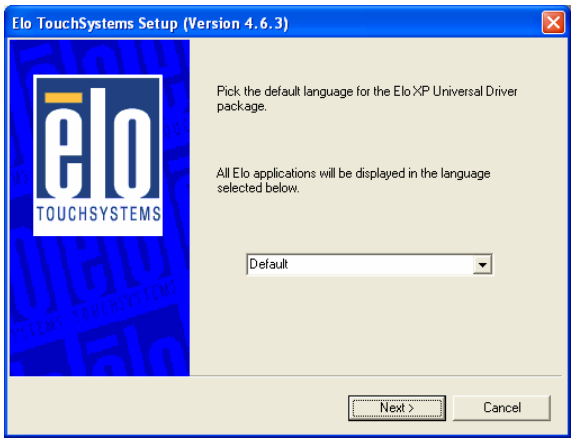
WinZip Self-Extractor
Welcome to Elo Universal Driver for Windows XP/2000 Installer.
Driver Version 4.6.3 (05-15-2007)
Click OK to continue.
OK

b. Click “**OK**”.

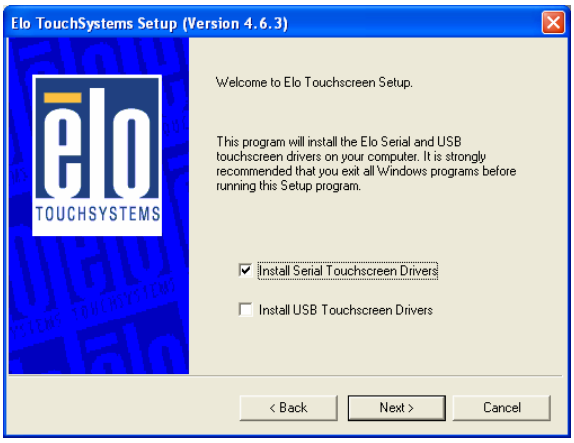


c. Click ”**Unzip**” to extract the driver to the specified folder.

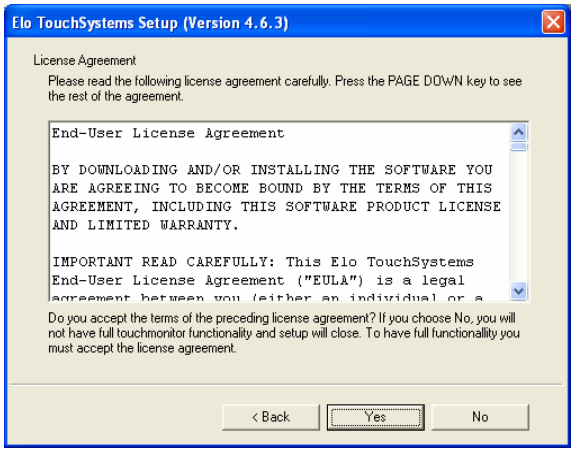
d. Finished unzipping. Click ”**OK**”.


Elo TouchSystems Setup (Version 4.6.3)
Pick the default language for the Elo XP Universal Driver package.
All Elo applications will be displayed in the language selected below.
Default
Next >
Cancel

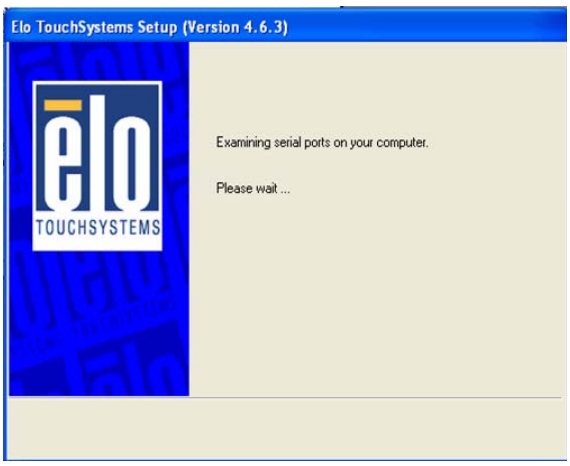
e. Click ”**Next**”.


Elo TouchSystems Setup (Version 4.6.3)
Welcome to Elo Touchscreen Setup.
This program will install the Elo Serial and USB touchscreen drivers on your computer. It is strongly recommended that you exit all Windows programs before running this Setup program.
Install Serial Touchscreen Drivers
Install USB Touchscreen Drivers
< Back
Next >
Cancel

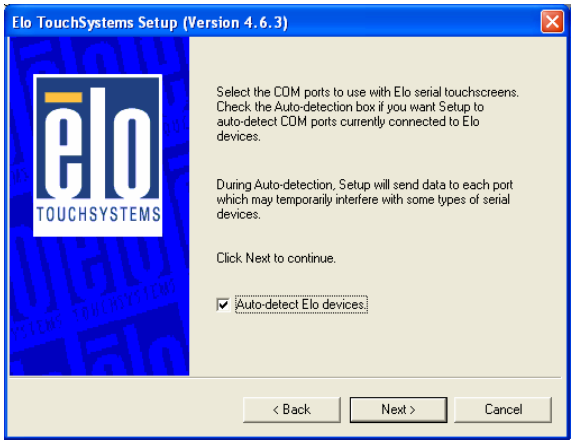
f. Check the box Install Serial Touchscreen Drivers and click ”**Next**”.


Elo TouchSystems Setup (Version 4.6.3)
License Agreement
Please read the following license agreement carefully. Press the PAGE DOWN key to see the rest of the agreement.
End-User License Agreement
BY DOWNLOADING AND/OR INSTALLING THE SOFTWARE YOU ARE AGREEING TO BECOME BOUND BY THE TERMS OF THIS AGREEMENT, INCLUDING THIS SOFTWARE PRODUCT LICENSE AND LIMITED WARRANTY.
IMPORTANT READ CAREFULLY: This Elo TouchSystems End-User License Agreement ("EULA") is a legal
Do you accept the terms of the preceding license agreement? If you choose No, you will not have full touchmonitor functionality and setup will close. To have full functionality you must accept the license agreement.
< Back
Yes
No

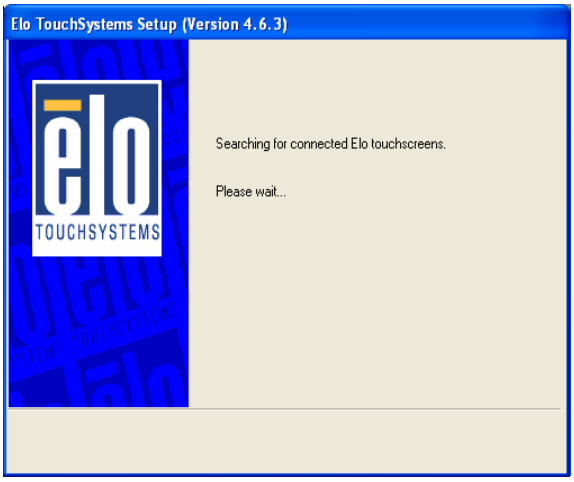
g. Click "**Yes**" to accept the End User License Agreement



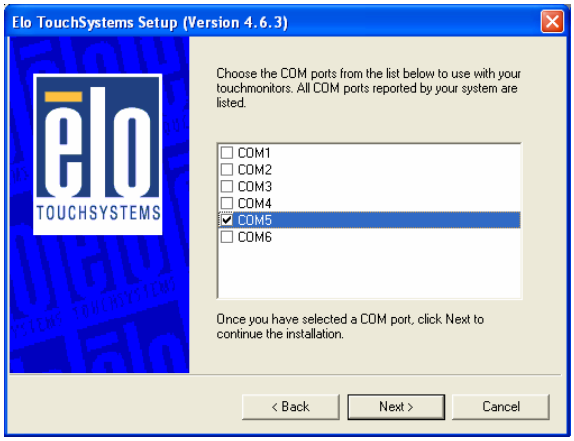
h. Examining serial ports on the computer


Elo TouchSystems Setup (Version 4.6.3)
TOUCHSYSTEMS
Select the COM ports to use with Elo serial touchscreens. Check the Auto-detection box if you want Setup to auto-detect COM ports currently connected to Elo devices.
During Auto-detection, Setup will send data to each port which may temporarily interfere with some types of serial devices.
Click Next to continue.
Auto-detect Elo devices
< Back
Next >
Cancel

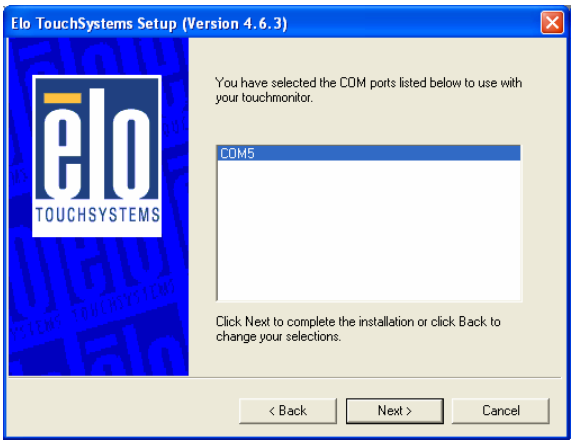
i. Check the box Auto-detect Elo devices and click "**Next**".



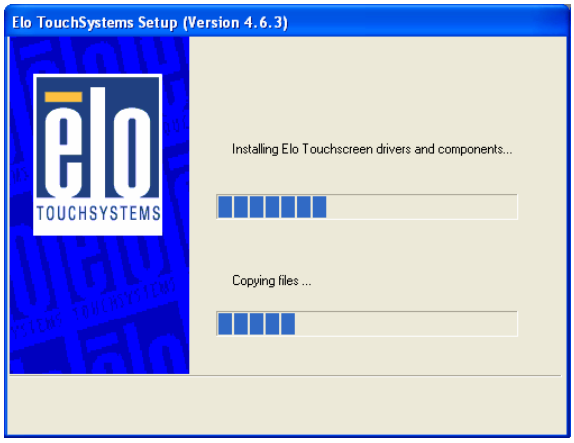
j. The computer is searching for a connected to Elo Touchscreen


Elo TouchSystems Setup (Version 4.6.3)
TOUCHSYSTEMS
Choose the COM ports from the list below to use with your touchmonitors. All COM ports reported by your system are listed.
COM1
COM2
COM3
COM4
COM5
COM6
Once you have selected a COM port, click Next to continue the installation.
< Back
Next >
Cancel

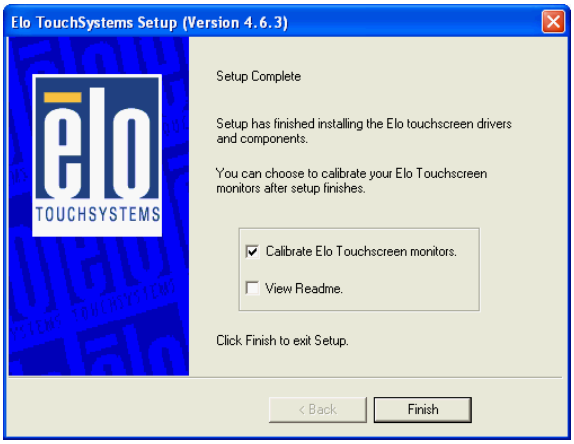
k. Touchscreen found on "**COM5**". Click "**Next**".


Elo TouchSystems Setup (Version 4.6.3)
TOUCHSYSTEMS
You have selected the COM ports listed below to use with your touchmonitor.
COM5
Click Next to complete the installation or click Back to change your selections.
< Back
Next >
Cancel

l. Click "**Next**" to complete the driver installation

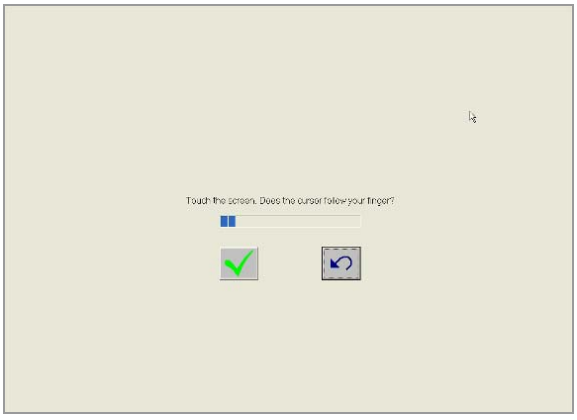


m. Driver is installing


Elo TouchSystems Setup (Version 4.6.3)
TOUCHSYSTEMS
Setup Complete
Setup has finished installing the Elo touchscreen drivers and components.
You can choose to calibrate your Elo Touchscreen monitors after setup finishes.
Calibrate Elo Touchscreen monitors.
View Readme.
Click Finish to exit Setup.
< Back
Finish

n. The driver installation and setup are now complete. Click ”**Finish**” to start the touchscreen calibration.

o. Follow the instructions on the screen to calibrate the Touchscreen.



p. Verify that the touchscreen is working correctly by moving your finger on the screen. The mouse cursor should follow your finger. Finally, touch the green checkmark to save the calibration settings and exit the program

6.2 B98 V1.0

6.2.1 Driver List

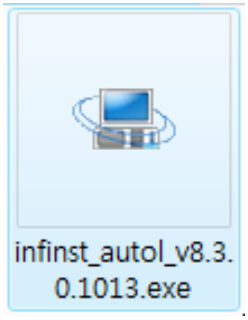
Folder/File	File Description
<CD>:\K870_B98.htm	Driver List
<CD>:\COMMON\INTEL\Chipset\i9xx	Chipset Driver
<CD>:\COMMON\INTEL\VGA\i94x	VGA Driver
<CD>:\COMMON\Audio\Realtek_HD_Codec	Audio Driver
<CD>:\COMMON\ POS_Touch	POSTouch Driver
<CD>:\COMMON\ELO_Touch	ELO Touch Driver
<CD>:\COMMON\Lan_driver\Realtek_PCIe	10/100/1000Mb LAN Driver

-The following procedures are for Windows 2000/XP, other platforms are similar.

6.2.2 Chipset Driver Installation

a. In the "**Chipset**" section, click on "**Windows**".

b. Double-click "**v8.3.0.1013**".



c. Double-click "**infinst_autol_V8.3.0.1013.exe**".

Intel® Chipset Device Software
Intel® Chipset Device Software
Welcome to the Setup Program
This setup program will install the Intel® Chipset Device Software onto this computer. It is strongly recommended that you exit all Windows* programs before continuing.
< Back
Next >
Cancel
Intel® Installation Framework

d. Click "**Next**".

Intel® Chipset Device Software
Intel® Chipset Device Software
License Agreement
You must accept all of the terms of the license agreement in order to continue the setup program. Do you accept the terms?
INTEL SOFTWARE LICENSE AGREEMENT (OEM / IHV / ISV Distribution & Single User)
IMPORTANT - READ BEFORE COPYING, INSTALLING OR USING.
Do not use or load this software and any associated materials (collectively, the "Software") until you have carefully read the following terms and conditions. By loading or using the Software, you agree to the terms of this Agreement. If you do not wish to so agree, do not install or use the Software.
Please Also Note:
* If you are an Original Equipment Manufacturer (OEM), Independent Hardware Vendor (IHV), or Independent Software Vendor (ISV), this complete LICENSE AGREEMENT applies;
< Back
Yes
No
Intel® Installation Framework

e. Click "**Yes**".

Intel® Chipset Device Software
Intel® Chipset Device Software
Readme File Information
Refer to the Readme file below to view the system requirements and installation information.
Press the Page Down key to view the rest of the file.
****
* Product: Intel(R) Chipset Device Software
* Release: Production Version
* Version: 8.3.0.1013
* Target Chipset#: Q33/G33/G31/P35
* Date: March 05 2007
****
< Back
Next >
Cancel
Intel® Installation Framework

f. Click "**Next**".

Intel® Chipset Device Software
Intel® Chipset Device Software
Setup Progress
Please wait while the following setup operations are performed:
Installing Driver: Intel(R) 82801G (ICH7 Family) USB Universal Host Controller - 27C8
Version: 8.2.0.1008
Installing Driver: Intel(R) 82801G (ICH7 Family) USB Universal Host Controller - 27C9
Version: 8.2.0.1008
Installing Driver: Intel(R) 82801G (ICH7 Family) USB Universal Host Controller - 27CA
Version: 8.2.0.1008
Installing Driver: Intel(R) 82801G (ICH7 Family) USB Universal Host Controller - 27CB
Version: 8.2.0.1008
Installing Driver: Intel(R) 82801G (ICH7 Family) USB2 Enhanced Host Controller - 27CC
Version: 8.2.0.1008
Next
Intel® Installation Framework

g. The driver installation starts…

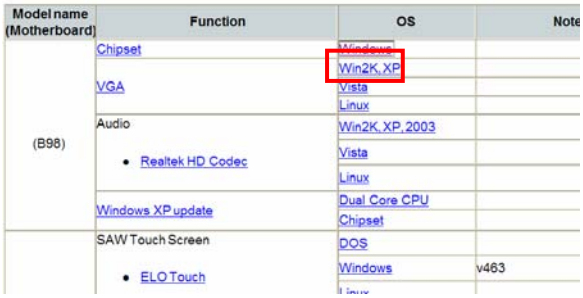
Intel® Chipset Device Software
Intel® Chipset Device Software
Setup Progress
Please wait while the following setup operations are performed:
Installing Driver: Intel(R) 82801G (ICH7 Family) USB Universal Host Controller - 27C9
Version: 8.2.0.1008
Installing Driver: Intel(R) 82801G (ICH7 Family) USB Universal Host Controller - 27CA
Version: 8.2.0.1008
Installing Driver: Intel(R) 82801G (ICH7 Family) USB Universal Host Controller - 27CB
Version: 8.2.0.1008
Installing Driver: Intel(R) 82801G (ICH7 Family) USB2 Enhanced Host Controller - 27CC
Version: 8.2.0.1008
Click Next to continue.
Next
Intel® Installation Framework

h. Click ”**Next**”.

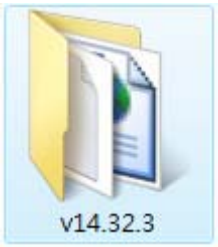
Intel® Chipset Device Software
Intel® Chipset Device Software
Setup Is Complete
You must restart this computer for the changes to take effect. Would you like to restart the computer now?
Yes, I want to restart this computer now.
No, I will restart this computer later.
Click Finish, then remove any installation media from the drives.
Finish
Intel® Installation Framework

i. Click ”**Finish**” to restart the system.

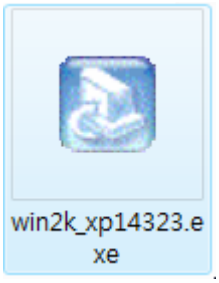
6.2.3 VGA Driver Installation



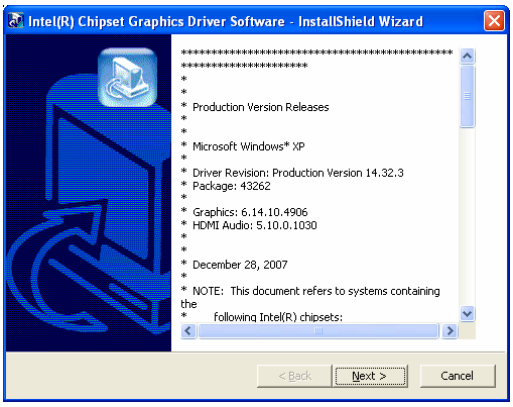
a. In the VGA section, click on "**Win2K_XP**".



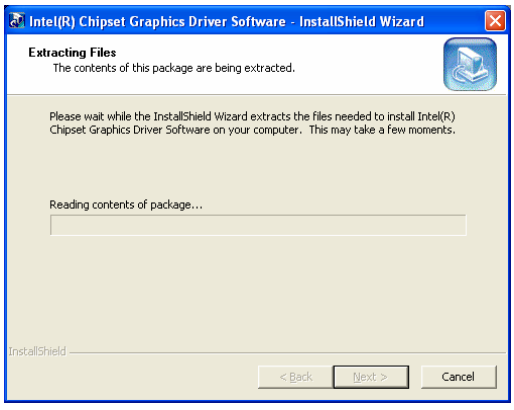
b. Double-click "**v14.32.3**".



c. Double-click "**win2k_xp14323.exe**".


Intel(R) Chipset Graphics Driver Software - InstallShield Wizard
* Production Version Releases
* Microsoft Windows* XP
* Driver Revision: Production Version 14.32.3
* Package: 43262
* Graphics: 6.14.10.4906
* HDMI Audio: 5.10.0.1030
* December 28, 2007
* NOTE: This document refers to systems containing the following Intel(R) chipsets:
< Back
Next >
Cancel

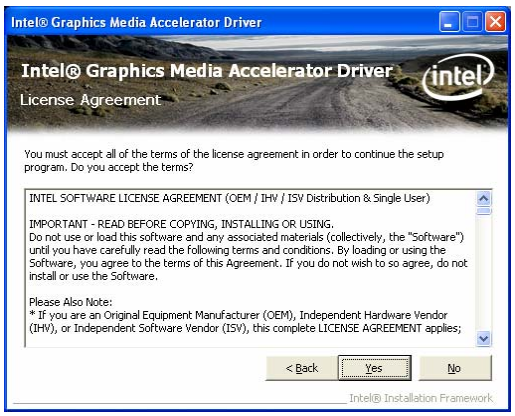
d. Click "**Next**".


Intel(R) Chipset Graphics Driver Software - InstallShield Wizard
Extracting Files
The contents of this package are being extracted.
Please wait while the InstallShield Wizard extracts the files needed to install Intel(R) Chipset Graphics Driver Software on your computer. This may take a few moments.
Reading contents of package...
InstallShield
< Back
Next >
Cancel

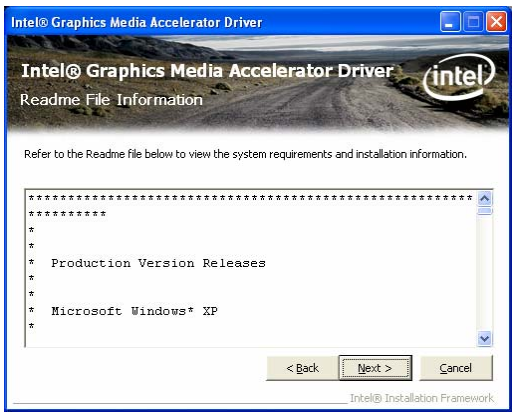
e. Extracting files…

Intel® Graphics Media Accelerator Driver
Intel® Graphics Media Accelerator Driver
intel
Welcome to the Setup Program
This setup program will install the Intel® Graphics Media Accelerator Driver onto this computer. It is strongly recommended that you exit all programs before continuing. Click Next to continue.
< Back
Next >
Cancel
Intel® Installation Framework

f. Click "**Next**".


Intel® Graphics Media Accelerator Driver
Intel® Graphics Media Accelerator Driver
License Agreement
You must accept all of the terms of the license agreement in order to continue the setup program. Do you accept the terms?
INTEL SOFTWARE LICENSE AGREEMENT (OEM / IHV / ISV Distribution & Single User)
IMPORTANT - READ BEFORE COPYING, INSTALLING OR USING.
Do not use or load this software and any associated materials (collectively, the "Software") until you have carefully read the following terms and conditions. By loading or using the Software, you agree to the terms of this Agreement. If you do not wish to so agree, do not install or use the Software.
Please Also Note:
* If you are an Original Equipment Manufacturer (OEM), Independent Hardware Vendor (IHV), or Independent Software Vendor (ISV), this complete LICENSE AGREEMENT applies;
< Back
Yes
No
Intel® Installation Framework

g. Click "**YES**" to accept the license agreement



h. Click "**Next**".

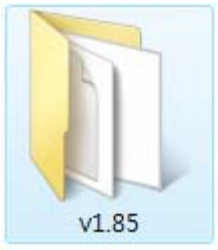
i. Click "**Next**".

Intel® Graphics Media Accelerator Driver
Intel® Graphics Media Accelerator Driver
Setup Is Complete
You must restart this computer for the changes to take effect. Would you like to restart the computer now?
Yes, I want to restart this computer now.
No, I will restart this computer later.
Click Finish, then remove any installation media from the drives.
Finish
Intel® Installation Framework

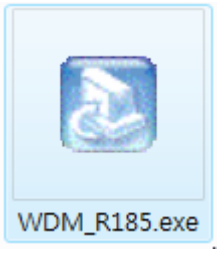
j. Select "**Yes**... "and click "**Finish**" to restart the computer

6.2.4 Audio Driver Installation

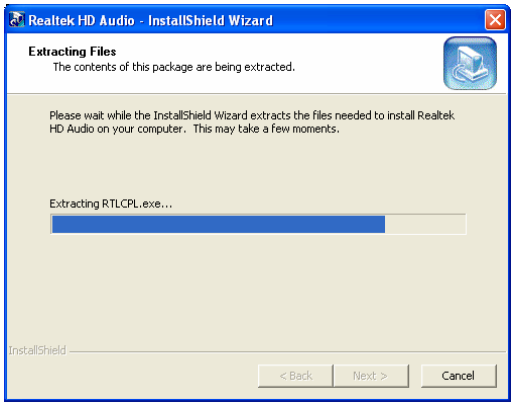
a. In the Realtek HD Codec section, click on "**Win2K, XP, 2003**".



b. Double click on "**v1.85**".

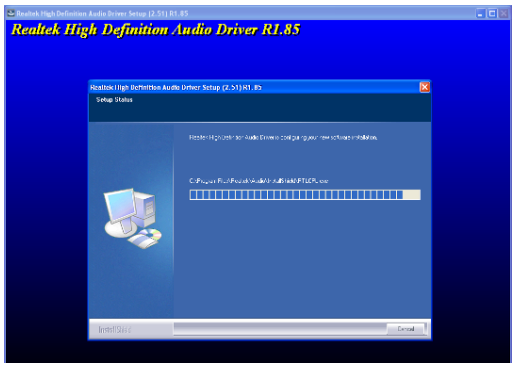


c. Double-click "**WDM_R185.exe**".


Realtek HD Audio - InstallShield Wizard
Extracting Files
The contents of this package are being extracted.
Please wait while the InstallShield Wizard extracts the files needed to install Realtek HD Audio on your computer. This may take a few moments.
Extracting RTLCPL.exe...
InstallShield
< Back
Next >
Cancel

d. Driver files are extracted…

e. Click "**Next**".

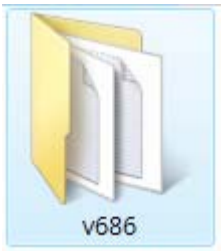


f. The computer is installing the Audio HD driver.

g. Select “**Yes, I want to restart my computer**” and click ”**Finish**”.

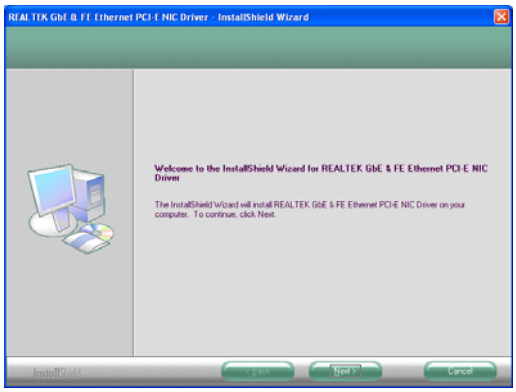
6.2.5 10/100/1000Mb LAN Driver Installation

a. In the Realtek RTL8111 section, click on "**Win9X, ME, 2K, XP**".

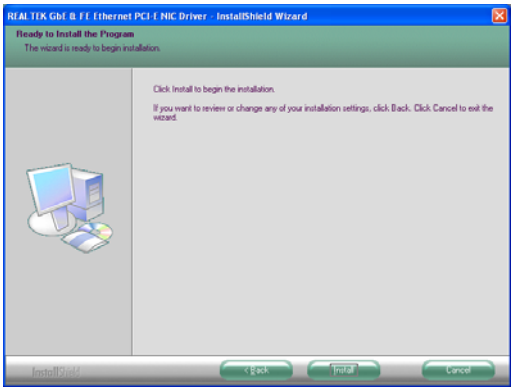


b. Double-click "**v686**".

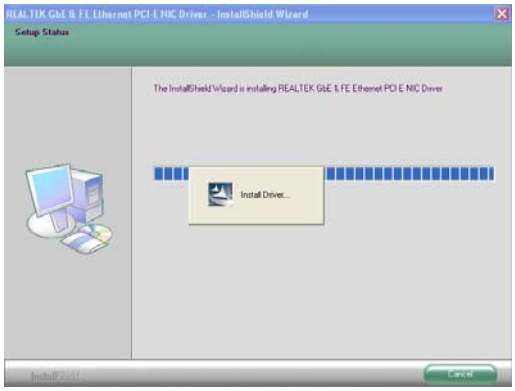
c. Double-click "**Setup.exe**"


REALTEK GbE & FE Ethernet PCI-E NIC Driver - InstallShield Wizard
Welcome to the InstallShield Wizard for REALTEK GbE & FE Ethernet PCI-E NIC Driver
The InstallShield Wizard will install REALTEK GbE & FE Ethernet PCI-E NIC Driver on your computer. To continue, click Next.
Next
Cancel

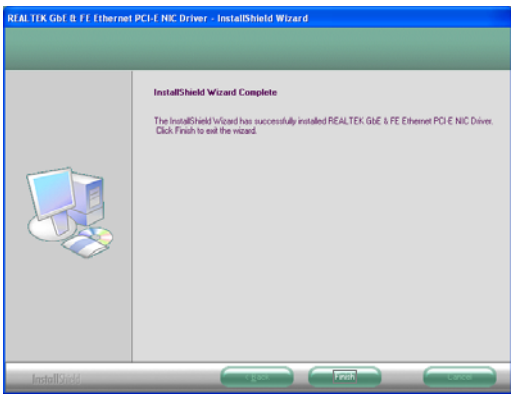
d. Click "**Next**".


REALTEK GbE & FE Ethernet PCI-E NIC Driver - InstallShield Wizard
Ready to Install the Program
The wizard is ready to begin installation.
Click Install to begin the installation.
If you want to review or change any of your installation settings, click Back. Click Cancel to exit the wizard.
Back
Install
Cancel

e. Click "**Install**" to begin the driver installation.


REALTEK GbE & FE Ethernet PCI-E NIC Driver - InstallShield Wizard
Setup Status
The InstallShield Wizard is installing REALTEK GbE & FE Ethernet PCI-E NIC Driver
Install Driver...
Cancel

f. The driver is being installed…


REALTEK GbE & FE Ethernet PCI-E NIC Driver - InstallShield Wizard
InstallShield Wizard Complete
The InstallShield Wizard has successfully installed REALTEK GbE & FE Ethernet PCI-E NIC Driver. Click Finish to exit the wizard.

g. Click ”**Finish**” to complete the installation.

6.2.6 POSTouch Driver Installation

POS Touch Driver Installation for B98 V1.0, please refer to B78 V2.2 POSTouch Driver Installation on page 39.

6.2.7 ELO Touch Driver Installation

ELo Touch Driver Installation for B98 V1.0, please refer to B78 V2.2 ELO Touch Driver Installation on page 43.

7. BIOS Settings

Below BIOS Settings are for the Motherboards B78 V2.2 and B98 V1.0.

7.1 BIOS Setup Utility

The BIOS setup defines how the system is configured. You need to run this program the first time you configure this product. You may need to run it again if you change the configuration.
You need to connect a PC keyboard to the keyboard connector to run the BIOS setup utility.

7.2 Starting the BIOS Setup

Turn on or reboot this product.
Press the DEL key immediately after the product is turned on, or press the DEL key when the following message is displayed during POST (the Power on Self-Test)

Press DEL to enter SETUP.

The main menu of the BIOS setup is displayed.
If the supervisor password is set, you must enter it here.

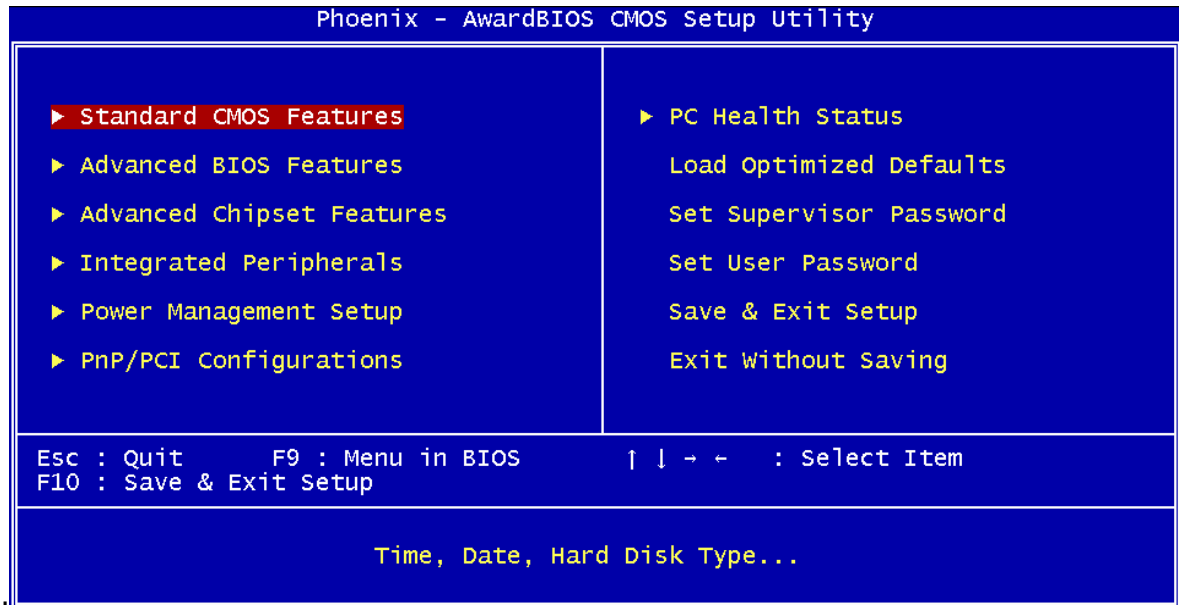
7.3 When a Problem Occurs

If, after making and saving system changes with the Setup utility, you find that this product no longer boots, start the BIOS setup and execute the following

Load Optimized Defaults

7.4 BIOS Main Menu

When the BIOS Main Menu is displayed, the following items can be selected. Use the arrow keys to select items and the Enter key to accept and enter the sub-menu.
Note: The BIOS setup menus shown in this section are for reference only and may not exactly match the items of your BIOS version.



Standard CMOS Features
Use this menu for basic system configuration.

Advanced BIOS Features
Use this menu to set the Advanced Features available on the system.

Advanced Chipset Features
Use this menu to change the values in the chipset registers and optimize the system's performance.

Integrated Peripherals
Use this menu to specify your settings for integrated peripherals.

Power Management setup
Use this menu to specify your settings for power management.

PnP/PCI Configurations
This entry appears if your system supports Plug and Play and PCI Configuration.

PC health status
Displays CPU, System Temperature, Fan Speed, and System Voltages Value.

Load Optimized Defaults
Use this menu to load the BIOS default values, i.e., factory settings for optimal performance system operations. While Award has designed the custom BIOS to maximize performance, the factory has the option to change these defaults to meet their needs.

Set Supervisor Password
Enables you to change, set, or disable the supervisor or user password.

Set Password
Change, set, or disable the password. It allows you to limit access to the system and to the setup, or just to the setup.

Save & exit setup
Save CMOS value changes to CMOS and exits setup.

Exit without saving
Ignores all CMOS value changes and exits setup.